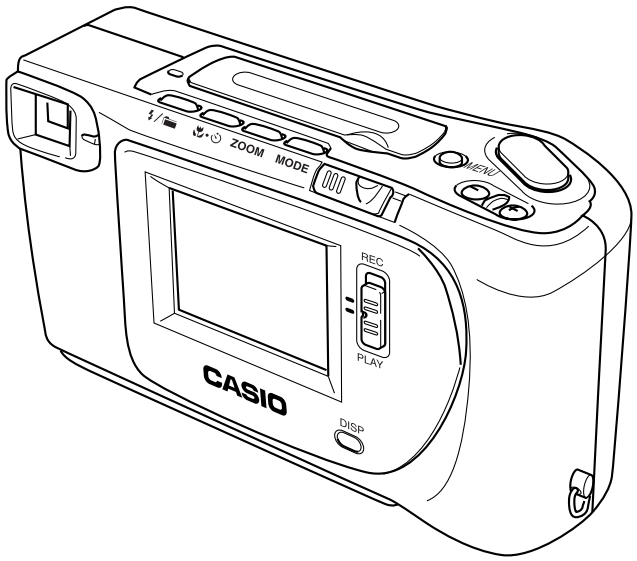
SERVICE MANUAL & PARTS LIST (without price)

QV-5500SX

(KX-712)

MAR. 1999



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CASIO®

Ver.1 Dec / 1999

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SPECIFICATIONS

File Format	Static, Panorama: JPEG standard; Movie: AVI/JPEG (for recording to CompactFlash card)
Recording Medium	CompactFlash card
Standard Memory Capacity/ Number of Image Files/ Computer Output Image Size	Static S (1280 x 960) / 14 (500KB/image) F (1280 x 960) / 19 (352KB/image) N (1280 x 960) / 33 (200KB/image) E (640 x 480) / 55 (112KB/image) Movie: File Format AVI 3.2seconds (320x240) / 8sets (896KB / image) 6.4seconds (320x240) / 4sets (1792KB / image) 9.6seconds (320x240) / 3sets (2100KB / image) 3.2seconds (160x120) / 30sets (224KB / image) 6.4seconds (160x120) / 16sets (448KB / image) 9.6seconds (160x120) / 10sets (672KB / image) Movie: File Format JPEG 3.2seconds (320x240) / 6sets 6.4seconds (320x240) / 3sets 9.6seconds (320x240) / 2sets 3.2seconds (160x120) / 27sets 6.4seconds (160x120) / 13sets 9.6seconds (160x120) / 9sets *When using 8MB CF card.
Image Deletion	Single image; all images in a folder; all images in memory (with image protection)
Imaging Element	1/3-inch CCD (Total Pixels: 1.31 million, Effective Pixels; 1.25 million)
Lens	f/2.8; f = 5.47mm (equivalent to 36mm lens for 35mm film)
Zoom	Digital 2x, 4x
Focusing	External Phase Difference Auto Focus; manual focus with macro mode and focus lock
Focus Range	0.3m to ∞ for Normal focus; 10cm for macro (approximately 10cm to ∞ with manual focus), from surface of protective lens filter
Exposure Control	Light Metering: Multi-pattern, center point, spot by CCD
	Exposure: Program AE
	Exposure Compensation: –2EV to +2EV (1/2EV units)
Shutter	CCD electronic shutter; mechanical shutter, 1/8 to 1/500 second (1 second in Night Scene Mode)
Aperture	f/2.8, 4, 5.6, 8, 11, 16 auto
White Balance	Automatic, fixed (4 modes), manual switching
Self-timer	10 seconds, 2 seconds
Built-in Flash	Flash Modes: AUTO, ON, OFF, Red eye reduction
	Flash Range: Approximately 0.7 to 2 meters
Recording Functions	Continuous, quick shutter, AEB, multiple exposure, night scene, single-image, self-timer, movie, panorama, macro
Monitor	1.8" TFT, low-glare color HAST LCD (122,100 pixels, 555 x 220)
Viewfinder	Monitor or optical viewfinder
Clock	Built-in quartz digital timepiece for time and date recording and storage with image data; auto calendar up to 2049
Input/Output Terminals	DIGITAL IN/OUT, AC adaptor connector, VIDEO OUT (NTSC, PAL)

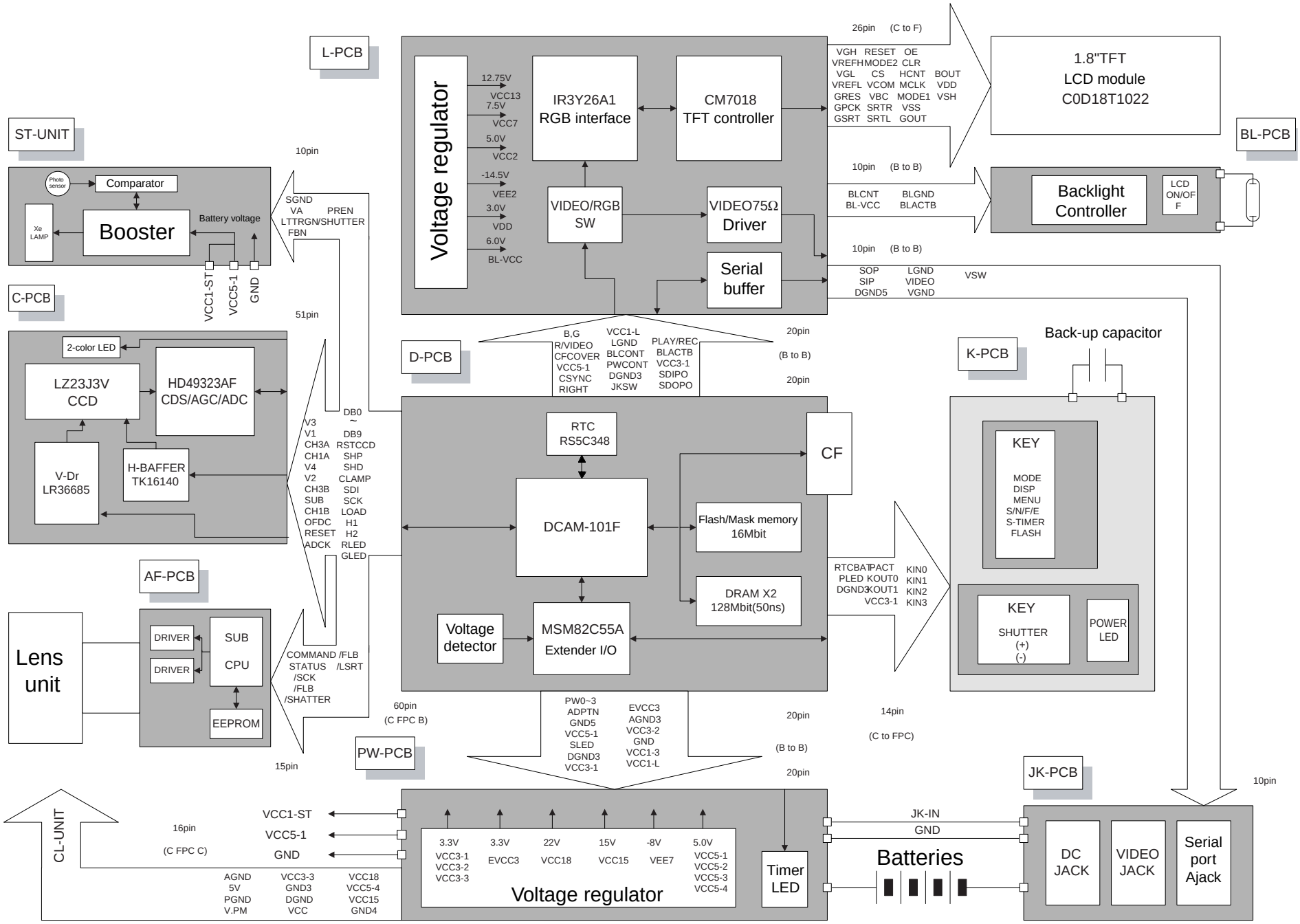
<table>
<tr><td>Power Supply</td><td>Four AA-size alkaline or lithium batteries
Four AA-size nickel-hydrogen rechargeable batteries (NP-H3)
AC adaptor (AD-C620)</td></tr>
<tr><td>Battery Life</td><td>The values noted below indicate the number of hours before battery failure under normal operating temperature (25°C). These values are for reference only, and do not guarantee that any particular set of batteries actually will provide the service life indicated. Low temperatures shorten battery life.
<table>
<tr><td>Type of Operation</td><td>AA-size Alkaline Batteries LR6</td><td>AA-size Lithium Batteries FR6</td></tr>
<tr><td>Continuous Playback</td><td>Approximately 110 minutes</td><td>Approximately 210 minutes</td></tr>
<tr><td>Continuous Recording</td><td>Approximately 300 shots</td><td>Approximately 840 shots</td></tr>
</table>
•The above guidelines are based on the following battery types:
Alkaline: MX1500 (AA) DURACELL ULTRA
Lithium: Energizer
•Battery life varies with brand
Continuous recording values show the number of shots without using the flash. The number of shots depends on use of the flash and whether flash is turned on or off.</td></tr>
<tr><td>Power Consumption</td><td>Approximately 7.3W</td></tr>
<tr><td>Dimensions</td><td>131(W) x 69(H) x 43(D) mm</td></tr>
<tr><td>Weight</td><td>Approximately 250g (excluding batteries)</td></tr>
<tr><td>Standard Accessories</td><td>8MB COMPACTFLASH memory card; strap; soft case; lens cap; video cable; data transfer cable; PC Link CD-ROM; four LR6 alkaline batteries; Owner’s manual</td></tr>
</table>

*The camera also has a lithium battery that powers its built-in clock. When the power of this battery becomes weak, take the camera to your CASIO Service Provider to have it replaced.

*The liquid crystal panel built into this camera is the product of precision engineering, with an effective pixel rate of 99.99%. This also means, however that 0.01% of the pixels can be expected to fail to light or to remain lit at all times.

*U.S.A model can see a VIDEO OUT picture at the time of REC MODE.
(Other models cannot be carried out.)

BLOCK DIAGRAM



ADJUSTMENT

1. Adjustments to be done

(1) Whole unit

1. Loading ADJ program
2. White balance, Sensitivity
3. White scratch correction
4. Flash operation and charge current check
5. VCOM-DC adjustment
6. Current consumption

Note:

When the lens ass'y is replaced, adjustment should be done in order of above 1, 2, and 3.

(2) D-PCB

1. Function check

(3) L and BL PCBs

1. VCC2 adjustment and VCC13, VCC7, VEE2 voltage check
2. VCO free run frequency adjustment
3. Backlight drive voltage adjustment
4. VCOM AC adjustment and VCOM DC coarse adjustment
5. Brightness voltage setting and contrast adjustment

(4) PW-PCB

1. VCC18, VCC15, VEE7 voltage adjustment

2. Necessary equipment

1. PC (OS : Windows 95 or 98)
2. Link cable
3. Digital oscilloscope
4. Voltage regulator
5. Ammeter
6. AC adaptor

3. Caution

Use an AC adaptor for camera's power source unless otherwise specified.

Do not tell outsider about the camera's test program mode.

Do not execute other programs than specified in this manual.

1. Whole unit

1-1. Loading ADJ program

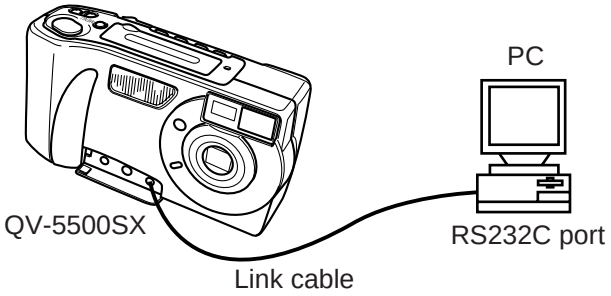
Camera mode: PLAY mode

Necessary program: adj712f.exe,712_0212.adj and adj712k.exe

Adjustments and Checks

(1) Insert CompactFlash card and turn the camera on for PLAY mode.

(2) Connect the camera's 3-pin jack and PC's RS232C port with a link cable.



(3) Execute adj712f.exe on Windows 95 or 98. (Fig. 1)

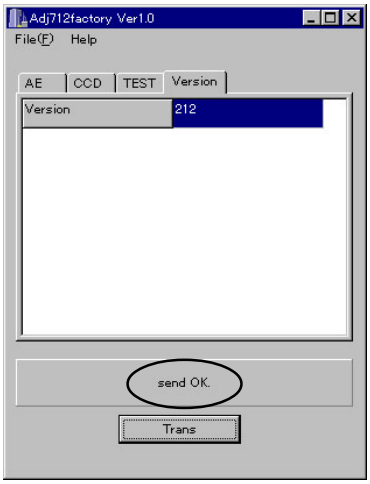
(Fig. 1)

(4) Open "712_0212.adj" file using File/Open command.

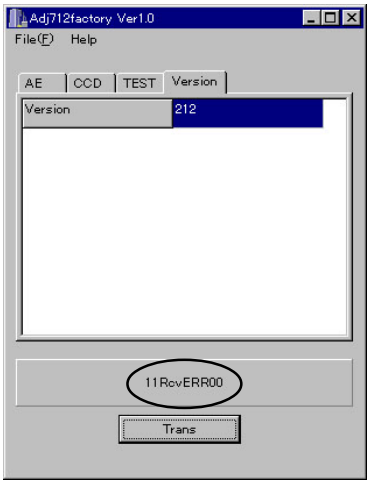
(5) Click [Trans] button.

● If the loading is done properly, screen indicates "send ok". (Fig. 2)

●If the loading was erroneous, "11RcvERR00" will be shown on the screen. (Fig. 3)

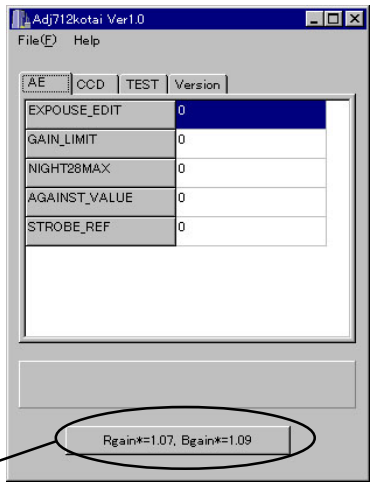


(Fig. 2)



(Fig. 3)

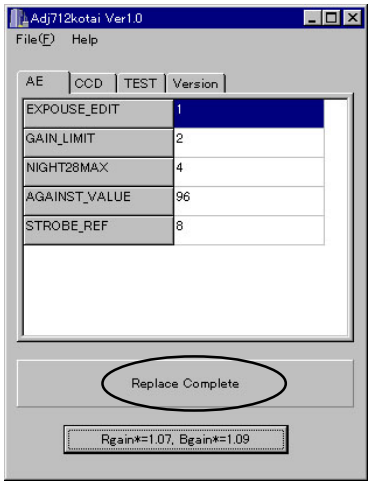
(6) The first ADJ program has been done when “send ok” is displayed.
Close the program then execute “adj712k.exe”. (Fig. 4)



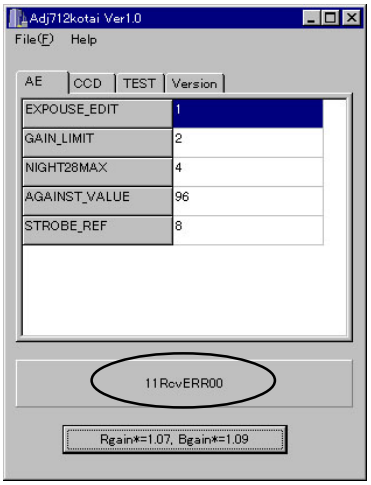
(Fig. 4)

(7) Click [Rgain*=1.07, Bgain*=1.09] button.

- If the program has been completed correctly, screen shows “Replace complete”. (Fig. 5)
- If the program has been erroneously executed, “11RcvERR00” will be shown. (Fig. 6)



(Fig. 5)



(Fig. 6)

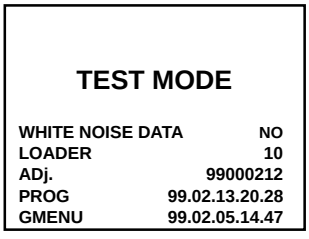
(8) The program ends.

ADJ program version number check

Insert CompactFlash in the camera and turn the camera on while pressing down Flash and shutter buttons.

Check for ADJ version(displayed as; ADJ 99000212) on the TEST MODE screen. (Fig. 7)

Turn the camera off then on again and make sure that the camera records and play backs pictures normally.



(Fig. 7)

NOTE: The left figure is for a reference. The actual screen may differ.

1-2. White balance and sensitivity adjustments

1. Necessary equipment

(1) Simplified viewer (e.g. Kenko Light Box handy5000) which is modified to be DC powered externally.

(2) Power source (Output voltage; 0 ~ 10V over, output current; 0 ~ 1A over)

(3) ND filter (ND20)

(4) Color temperature conversion filter (LA50)

*Though the above filters are provided from Casio as parts (refer to the parts list), they are also available from camera shops.

2. Settings

(1) Apply 6V from the power source to the simplified viewer.

(2) Turn the viewer on and leave it for approximately 30 minutes to stabilize the intensity and the color temperature.

3. Adjustment method

(1) Set the camera on Test Mode 2 menu by the following procedures.

• Turn the function switch on REC mode.

• Turn the power on while pressing down Flash and shutter buttons (Test Mode display is shown on the screen.)

• Press Macro button twice then push MENU button (MENU 2 screen will be displayed.)

• Select 1. CCD ADJUST and press shutter button (SHUT TO START will be shown.)

(2) Place color temperature conversion filter (LA50) on the center of the viewer's illumination surface.

(3) Stick the camera to color conversion filter so that camera lens is on the center of the filter.

(4) Push the shutter button.

(5) White balance initial value is loaded when "RGB ADJUST COMPLETE" is displayed.

(6) Remove color conversion filter from the viewer.

(7) Place ND filter on the center of the viewer's illumination surface.

(8) Stick the camera to the ND filter so that camera lens is on the center of the filter.

(9) Push the shutter button.

(10) Sensitivity adjustment is completed when "SENS ADJ COMPLETE" is displayed.

(11) Turn the camera power off.

Equipment needed to execute white balance and sensitivity adjustment

	ADJ SOFT	Light source (viewer)		Note
		Color temperature (K) light source 1	Light intensisty (cd/m^2) light source 2	
No. 1	CCD ADJUST	4400 ± 200		No specified figure for light intensity
No. 2	CCD SENS ADJUST		500 ± 80	No specified figure for color temperature

1-3. White scratch correction

1. Necessary equipment

(1) Simplified viewer (e.g. Kenko Light Box handy5000) which is modified to be DC powered externally.

(2) Power source (Output voltage; 0 ~ 10V over, output current; 0 ~ 1A over)

(3) Use two ND filter together, one ND10 and one ND20, placing one on the top of the other.

*Though the ND filter is provided from Casio as parts (refer to the parts list), it is also available from camera shops.

2. Settings

(1) Apply 6V from the power source to the simplified viewer.

(2) Turn the viewer on and leave it for approximately 30 minutes to stabilize the intensity and the color temperature.

3. Adjustment method

(1) Set the camera on Test Mode 2 menu by the following procedures.

• Turn the function switch on REC mode.

• Turn the power on while pressing down Flash and shutter buttons (Test Mode display is shown on the screen.)

• Press Macro button twice then push MENU button (MENU 2 screen will be displayed.)

• Select 10. WHITE NOISE DETECT. (do not push the shutter button.)

(2) Place ND filter on the center of the viewer's illumination surface.

(3) Stick the camera to the ND filter so that camera lens is on the center of the filter.

(4) Push the shutter button and wait for a moment.

(5) Sensitivity adjustment is completed when "SENS ADJ COMPLETE" is displayed.

(6) Turn the camera power off.

Equipment needed to execute white balance and sensitivity adjustment

	ADJ SOFT	**Light source (viewer) Light intensisty (cd/m^2) light source 2**	**Note**
No. 3	WHITE NOISE ADJUST	50 ± 5	No specified figure for color temperature

1-4. Flash operation and charge current check

Conditions

- Perform the checking after flash adjustment.
- Provide 6.0 ±0.1V from DC in jack.
- Turn the camera on REC mode.

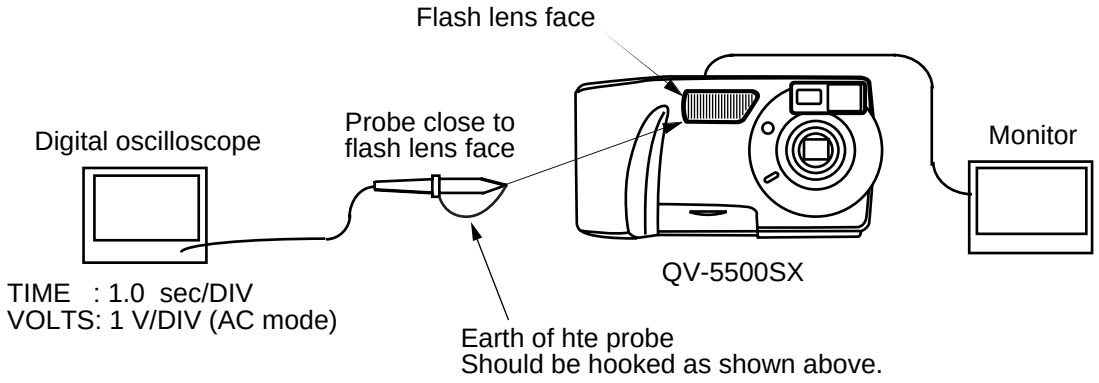
Adjustment and checking

(1) Shoot a picture with flash on mode.
(2) Shoot a picture with red-eye reduction mode.
(3) Shoot a picture with macro mode.
(4) Set the camera on play mode and check the pictures on the monitor screen.
(5) Record trigger pulses of the above (1), (2), and (3) pictures on a digital oscilloscope.
(6) Shoot a picture with flash off mode and make sure that the flash does not light.

Make sure that the DC in 6Vcurrent is less than 1.3A.

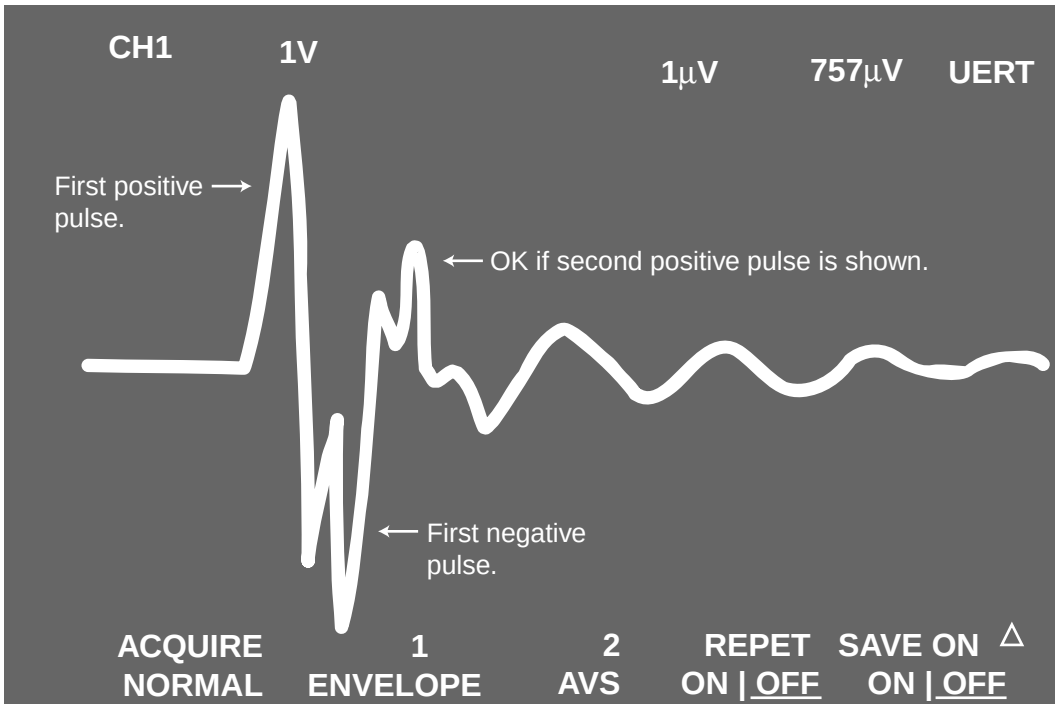
Note:

Pictures (1) and (2) should not be whitish, darkish, or abnormally colored.



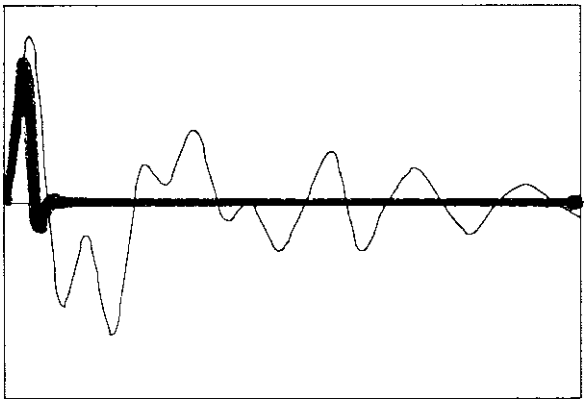
Flash trigger waveform

1. Normal waveform TIME : 1 μ sec/DIV
VOLTS : 1 V/DIV

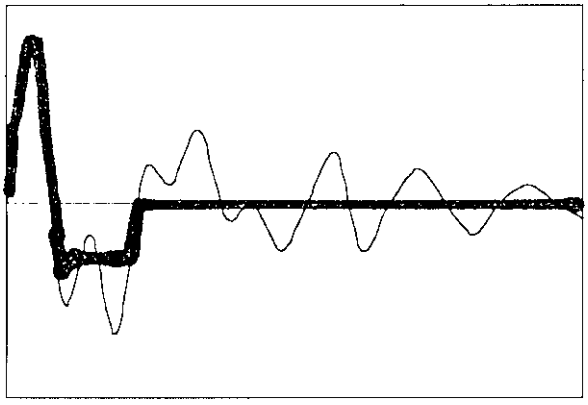


2. NG waveforms when trigger skipping occurs.

(1) When trigger skipping occurs on the first positive pulse.



(2) When trigger skipping occurs on the first negative pulse.



1-5. VCOM DC adjustment

Conditions

1. Test mode 50 % raster image
2. Provide 6.0 ± 0.05V voltage from DC in jack.

Adjustment and checking

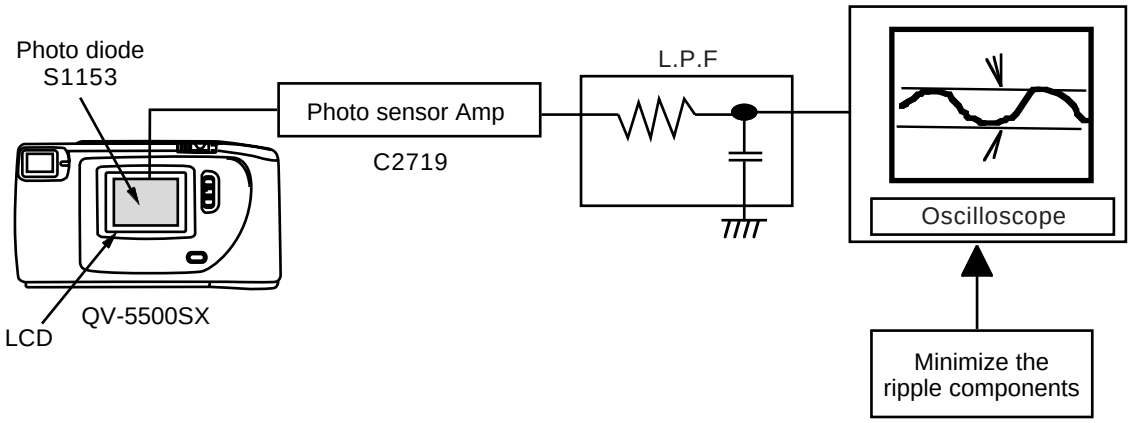
(1) Execute 50 PERCENT GRAY on the test mode.
- While pushing down Flash and shutter button, turn the camera on.
- Push the Flash button twice then press MENU button (MENU 1 display will be shown.)
- Select 50 PERCENT GRAY then press the shutter button.

(2) Monitor the photo sensor amplifier output via a low-pass filter of cutoff frequency 60Hz. Monitoring the oscilloscope screen, adjust VR320 to minimize 60Hz ripple waveform.

Notes:

Perform the adjustment after you replaced the display module.

Use only specified jig for replacing the flash lamp.



1-6. Current consumption check

Condition

Set the camera on play mode.

Adjustment and checking

(1) Current consumption (DC in = 6.0 ± 0.1V)

(2) Reducing the voltage from 6V, make sure that the battery capacity indicator is changed. DC in = 4.65 ± 0.05V (Play mode)

Notes:

Maximum current in play mode; 500mA

Reference: maximum current in rec mode; 800mA (flash is not charging)

2. D-PCBAssy

2-1. Operation check

Condition

Set the camera on play mode.

Adjustment and checking

1. Clock pulse frequency

   Check if CP400 is 32.768 ± 0.002kHz

2. Procedures

   (1) Connect a PC and the camera with a link cable.
   (PC; COM port, Camera; 3-pin jack)

   (2) Store GP2JPEG test file (8 files) in a CompactFlash card.
   Ref.bay / Ref.cb / Ref.cr / Ref.jpg / Ref.y / Refdec.cb / Refdec.cr / Refdec.y

   (3) Insert the Compact flash in the camera.

   (4) Turn the camera on (in Play mode).

   (5) Double click Dt712.exe.

   (6) DOS prompt opens and checking starts automatically.

   (7) In the key check mode, push all the keys.

   (8) Press space bar of the PC for LED and LCD control check.

   (9) When the camera functions correctly, the camera turns itself off then on again after 5 seconds.

   NOTE : If you wish to escape D PCB test, press PC's ESC button.

3. DT program

   Program to be used; dt712

   Check the followings;

   (1) Serial data communication

   (2) ROM version number

   (3) Graphic menu version number

   (4) DRAM

   (5) CompactFlash memory

   (6) Voltage detection (displayed as HIGH)
   (vcc1-3 voltage… high; 6.0 ± 0.1V, middle; 4.35 ± 0.05V, low; 3.85 ± 0.05V)

   (7) Each operation mode
   1) REC/PLAY modes
   2) VIDEO jack
   3) AC adaptor

   (8) EEPROM test

   (9) CP2 JPEG test

   (10) Button operations

   (11) LED1,2,3 on/off

   (12) TFT-LCD on/off

   (13) Time setting, time function

   (14) Timer test

   (15) Turn the camera off

4. Make sure that RGB and VIDEO signals are provided.
   Check VIDEO output in NTSC and PAL systems.

3. L, BL PCBs Assy

3-1. VCC2 adjustment and VCC13, VCC7, VEE2 checks

Adjustment and checking

Adjust VR151 so that VCC2 (CP172) is 5.0 ± 0.02V.

Turn the power off and make sure that all the voltages are 0V.

Notes :

<Voltages> VCC7 = 7.0 ~ 8.0V

VCC13 = 11.8 ~ 13.7V

VEE2 = -13.2 ~ -15.4V

3-2. VCC free run frequency adjustment

Condition

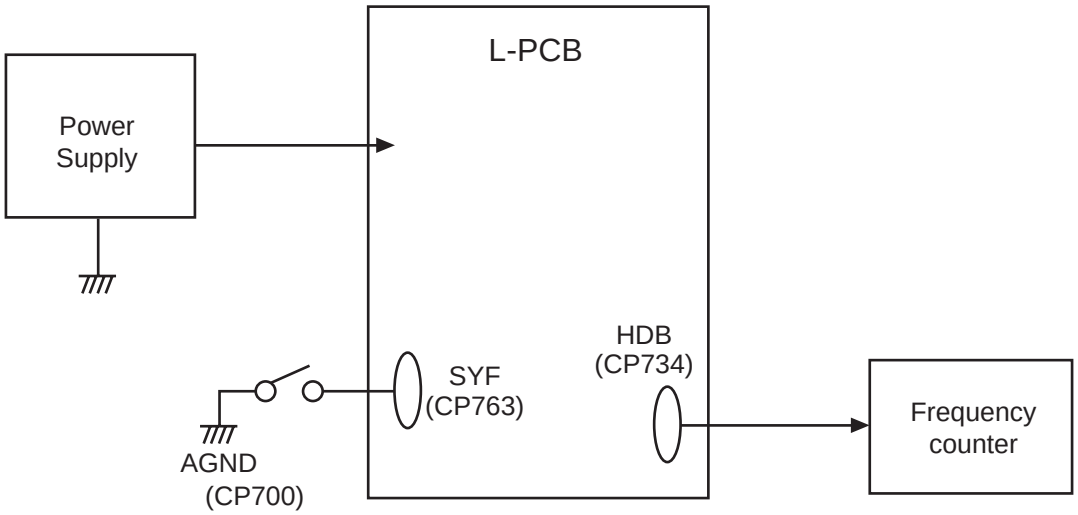
1. Connect CP763 (SYF) and CP700 (GND).

Adjustment

Monitoring CP734 (HDB) with frequency counter, adjust VR755 so that the frequency is 15.734 ± 0.1kHz.

Note :

Perform the adjustment in room temperature of 20 ± 10˚C.



3-3. BL drive voltage adjustment

Checking

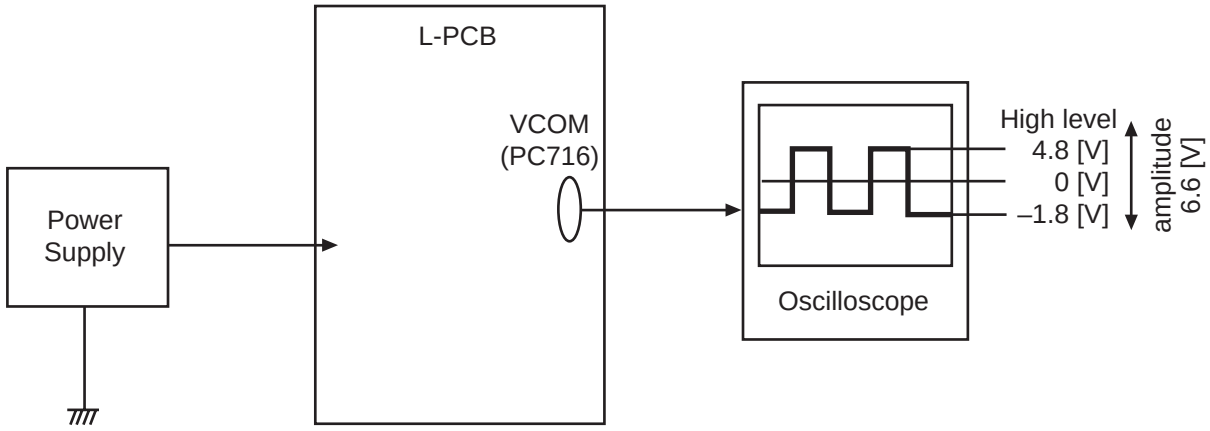
Make sure that CP900 (BL-VCC) is 5.4 ± 0.2V.

3-4. VCOM AC and VCOM DC coarse adjustment

Adjustment

(1) Check if VCOM output (CP716) amplitude is 6.6± 0.3V.

(2) Adjust VR320 so that High level of VCOM output (CP716) becomes 4.8 ± 0.2V.



3-5. Brightness voltage setting and contrast adjustment

Condition

Nature of signal : 10 step (NTSC)

Adjustment

(1) Execute GRAY SCALE (10STEP) on the test mode.
- While pushing down Flash and shutter button, turn the camera on.
- Push the Flash button twice then press MENU button (MENU 1 display will be shown.)
- Select GRAY SCALE (10STEP) then press the shutter button.

(2) Triggering with FRP (CP380) signal, adjust BOUT signal as described below.

(3) Adjust RGB-AMP (VR340) so that pedestal – pedestal voltage becomes 3.5 ± 0.05V.

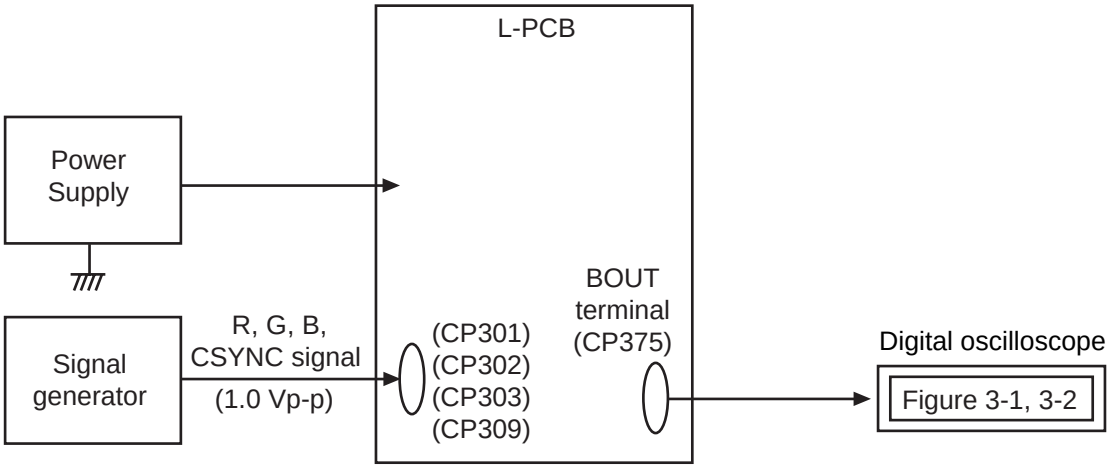
(4) Adjust contrast VR (VR344) so that contrast terminal (CP376) voltage is 3.0 ± 0.05V temporarily.

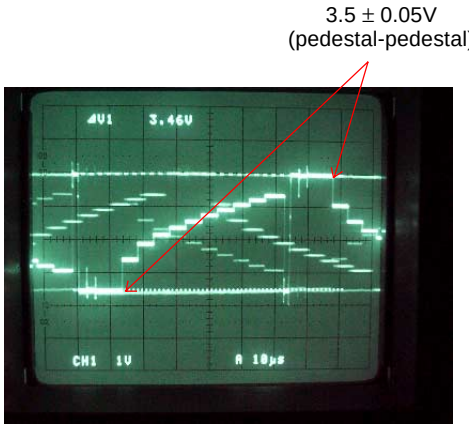
(5) Adjust Bright VR (VR381) so that pedestal – 3rd step is 2.20 ± 0.05V.

(6) Adjust Contrast VR (VR344) so that pedestal – 10th step is 2.85 ± 0.05V.

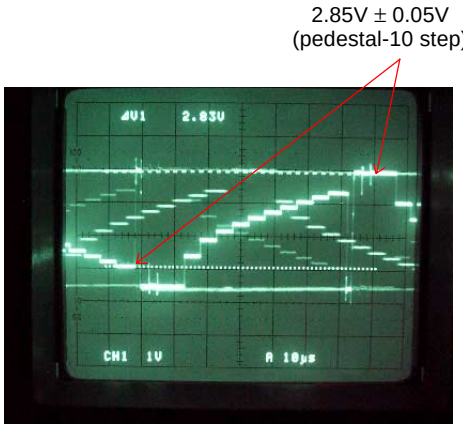
Note :

Make sure that the waveform is not distorted.





3-1



3-2

4. PW PCB Assy

4-1. VCC18, VCC15, VEE7 adjustments

Adjustment

Apply 5.0 ± 0.05V on VCC1-1 and adjust VR120 so that VCC18 (CP121) is 22.0 ± 0.5V.

Adjust VR125 so that VCC15 (CP125) is 15.5 ± 0.2V.

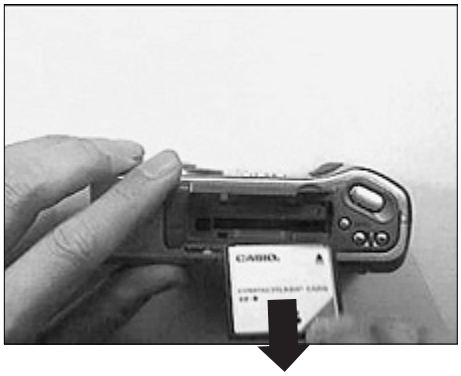
Adjust VR130 so that VEE7 (CP133) is –8.0 ± 0.2V.

Note

Perform VCC15 adjustment after VCC18 adjustment is done.

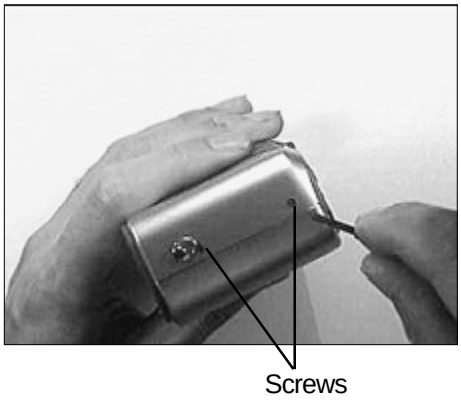
DISASSEMBLY

1. Take CompactFlash card from the camera.

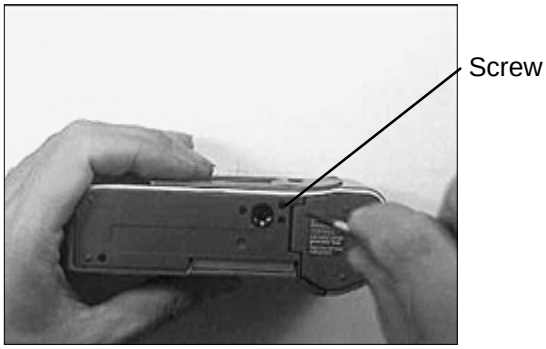


2. Remove the batteries.

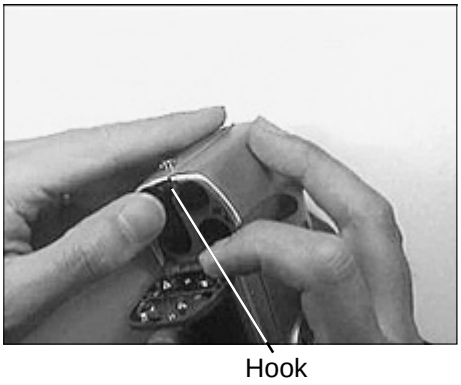
3. Remove 2 screws from side body of the camera.



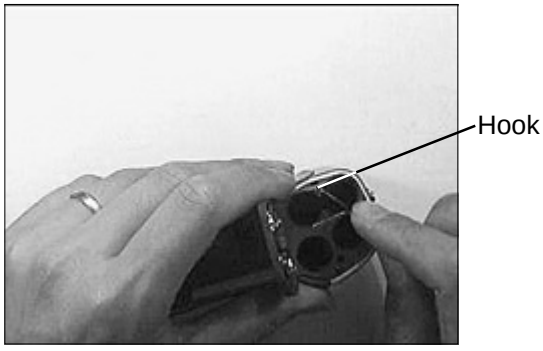
4. Remove 1 screw from the bottom of the camera.



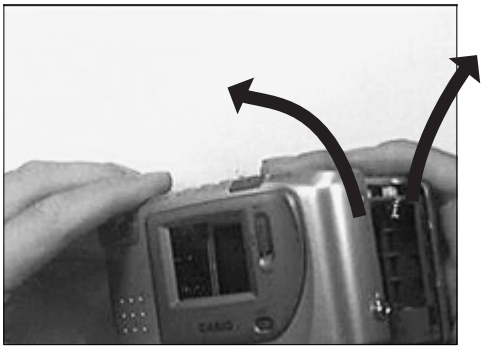
5. Open the battery cover and unhook the case.



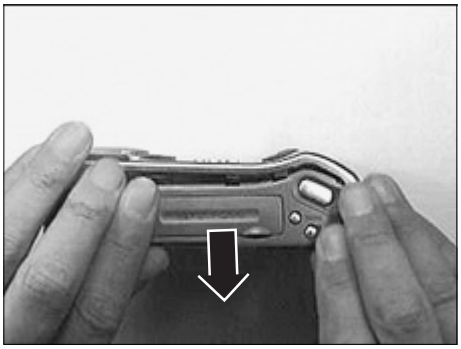
6. Unhook the case using a screw driver.



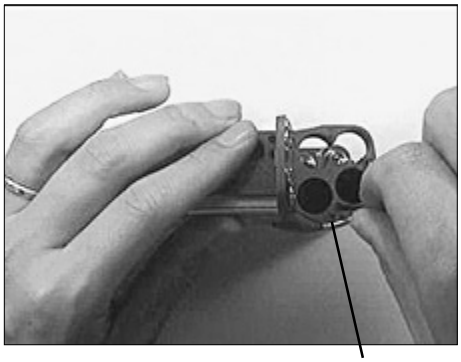
7. Remove the upper case.



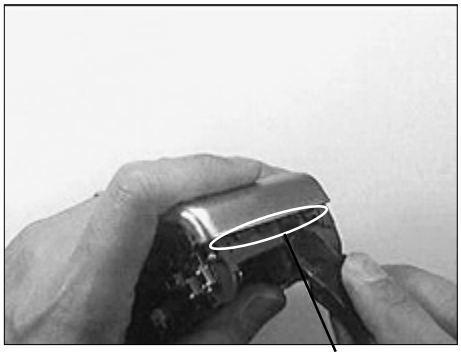
8. Remove the top case.



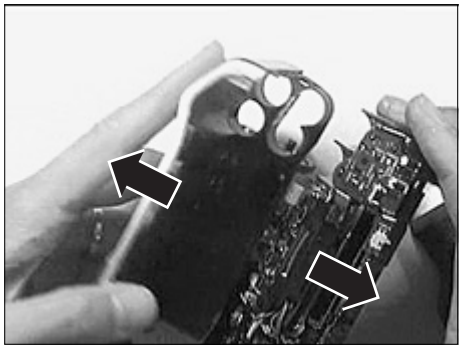
9. Open the battery cover and remove 1 screw.



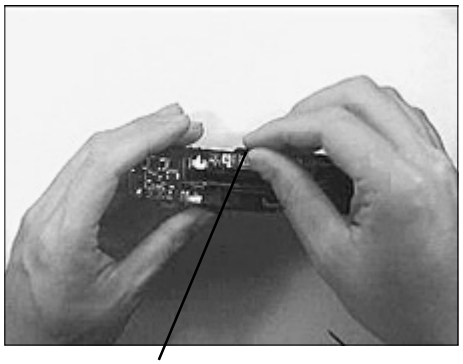
10. Unhook the battery holder.



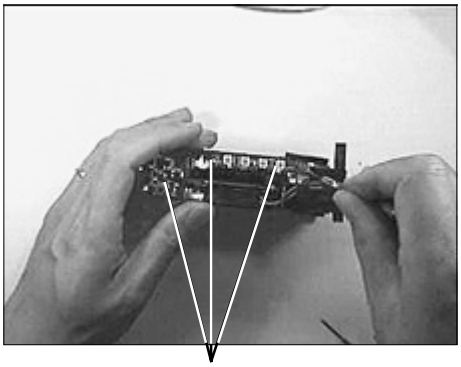
11. Remove the frame block.



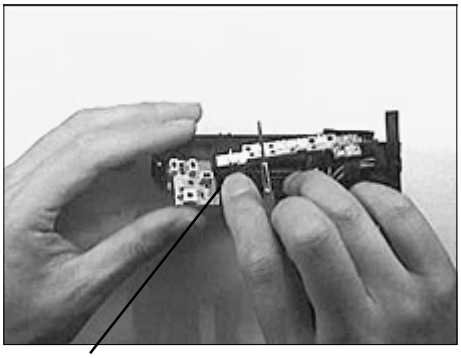
12. Peel off the insulation sheet on the key PCB.



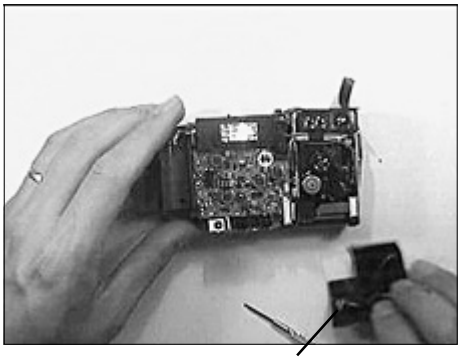
13. Remove 3 screws on the key PCB.



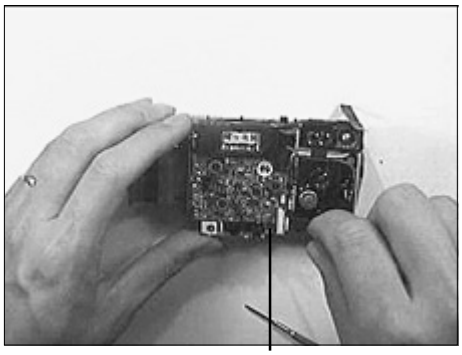
14. Disconnect the flat cable and remove key PCB.



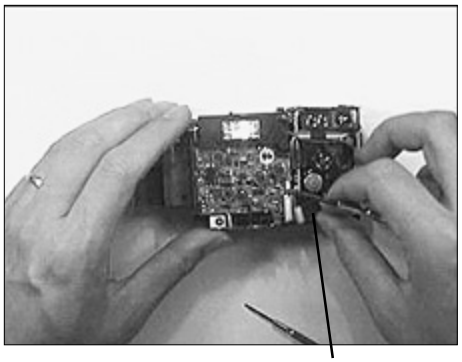
15. Peel off the insulation sheet from the bottom.



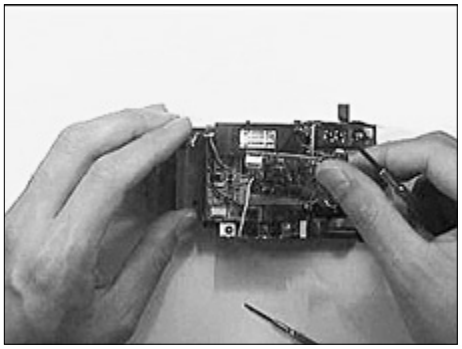
16. Remove a screw with washer affixing PW PCB.



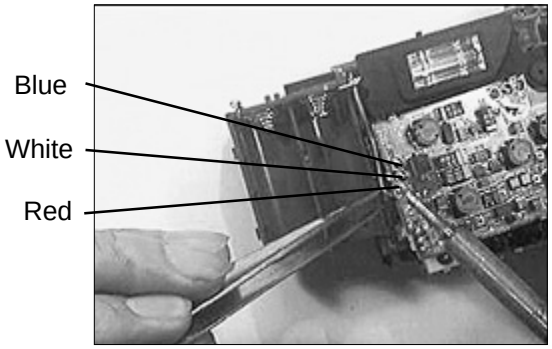
17. Disconnect the cable from the camera unit.



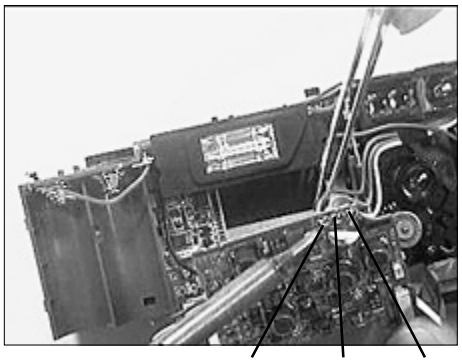
18. Lift the PW PCB.



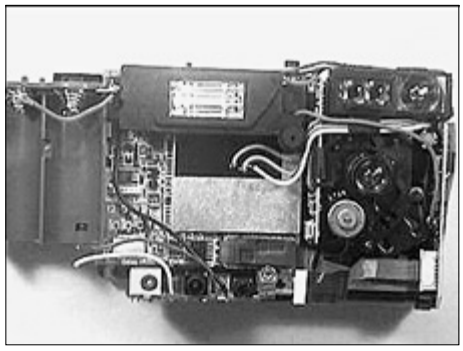
19. Unsolder 3 wires (red, blue, white).



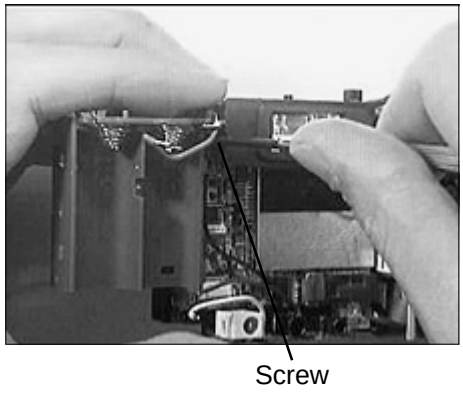
20. Unsolder 3 wires (purple, green, yellow).



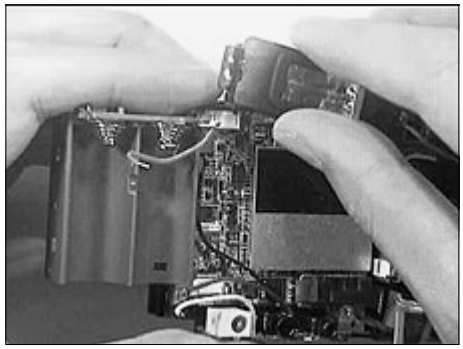
21. Remove PW PCB.



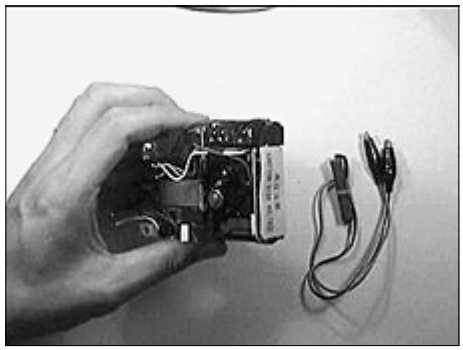
22. Remove 1 screw affixing the flash block.



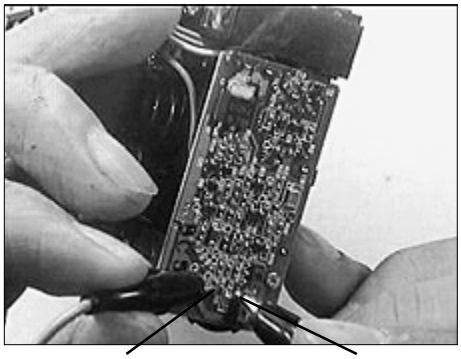
23. Remove the flash block.



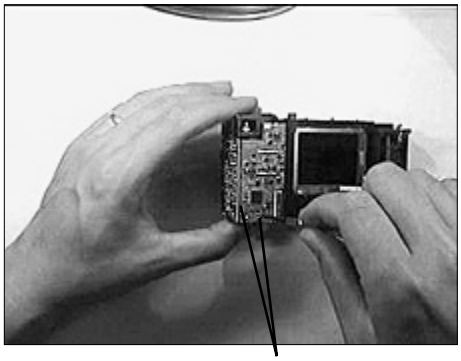
24. Prepare capacitor discharging jig. Peel high voltage caution seal.



25. Discharge the capacitor.

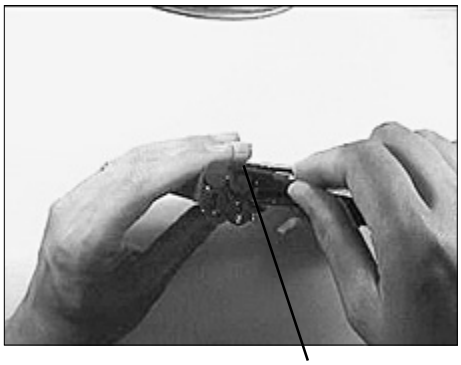


26. Remove 2 screws affixing Flash PCB.

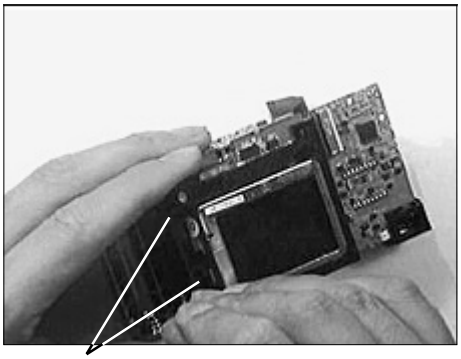


27. Remove the flash unit.

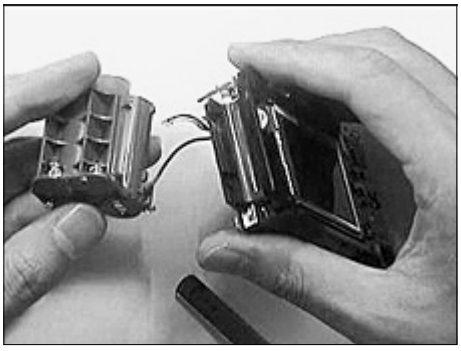
28. Remove 1 screw affixing battery holder.



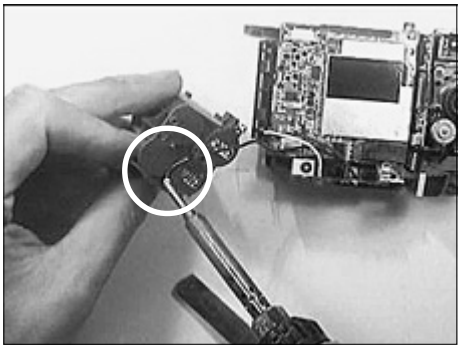
29. Unhook the battery holder.



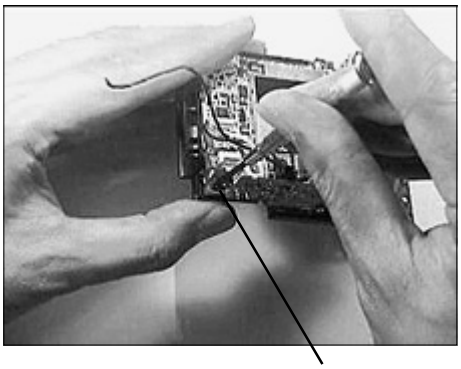
30. Remove the battery holder.



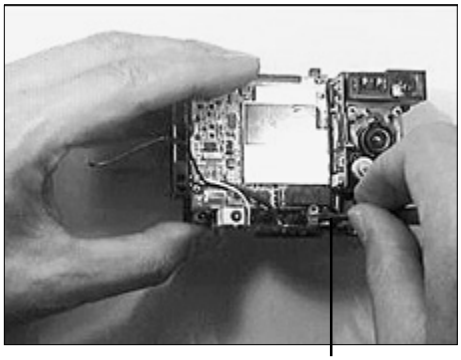
31. Remove a wire (black) from battery holder.



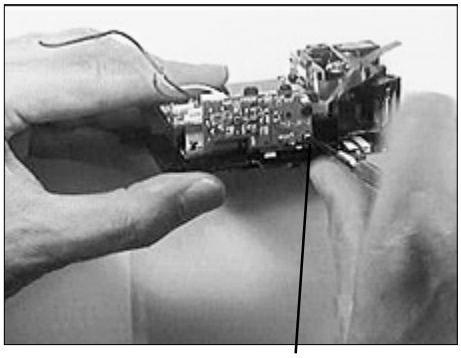
32. Remove 3 screws affixing JK PCB. (1st screw)



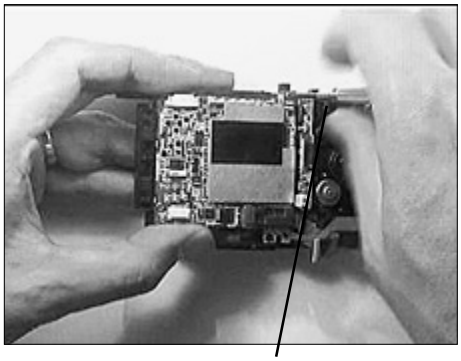
33. (2nd screw)



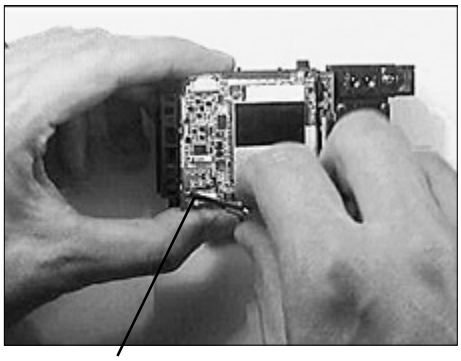
34. (3rd screw)



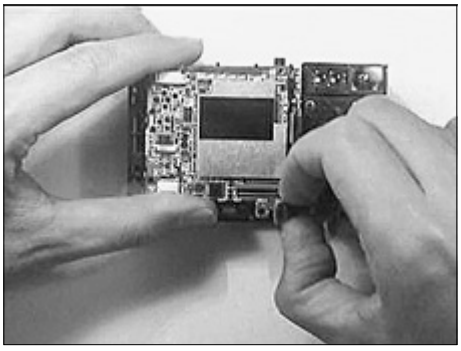
35. Remove 2 screws from D PCB. (1st screw)



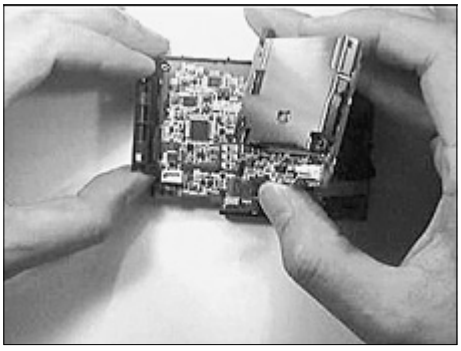
36. (2nd screw)



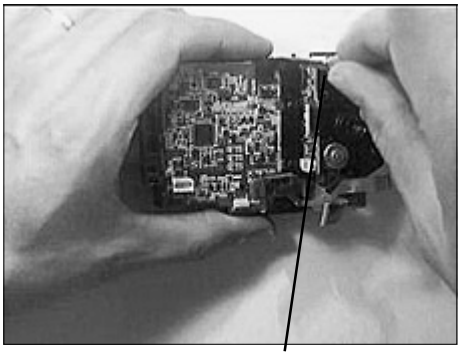
37. Disconnect the cable from camera unit.



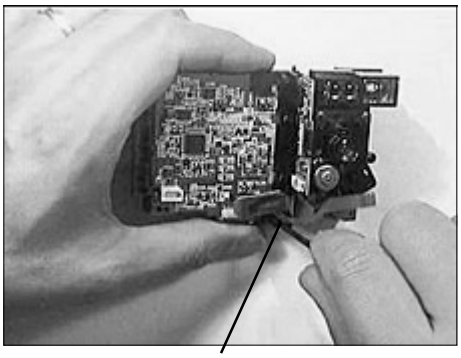
38. Remove D PCB.



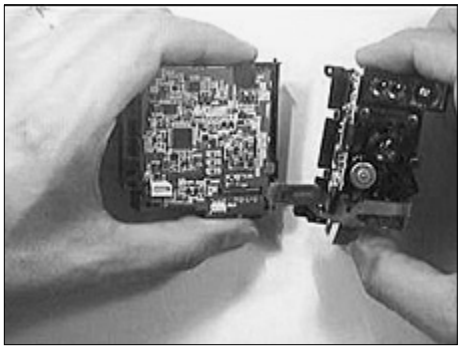
39. Remove 2 screws affixing camera unit. (1st screw)



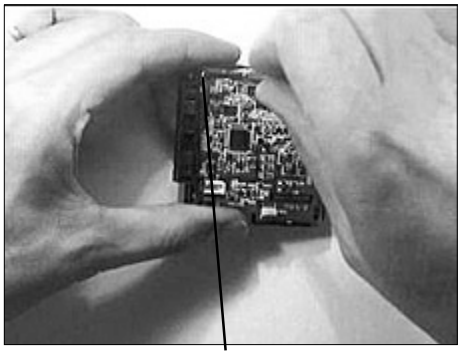
40. (2nd screw)



41. Remove camera unit.

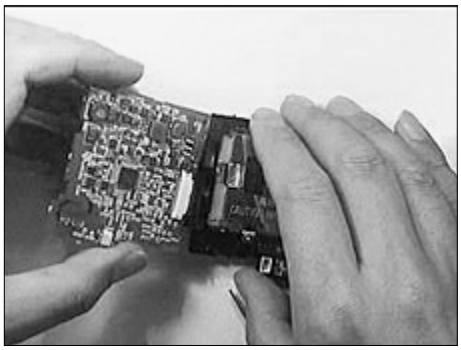


42. Remove 1 screw from L PCB.

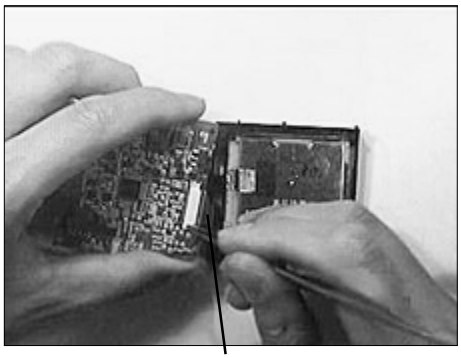


Screw

43. Open L PCB.

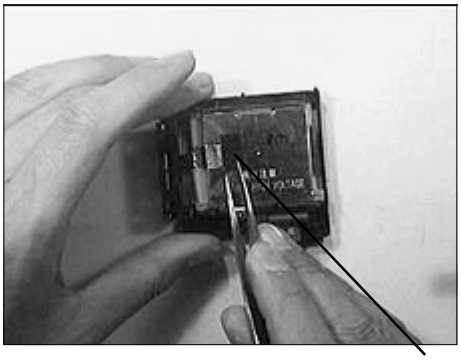


44. Disconnect the cable from LCD.



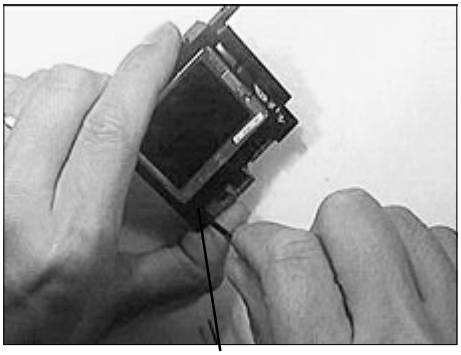
Cable

45. Peel the cloth tape off.



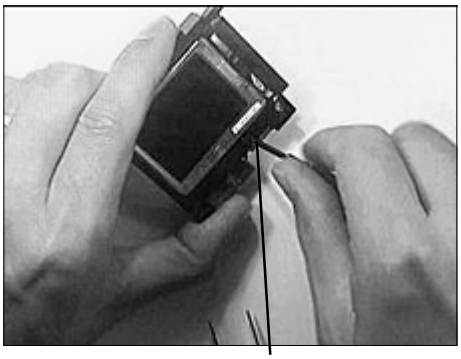
Cloth tape

46. Remove 2 screws from BL unit. (1st screw)



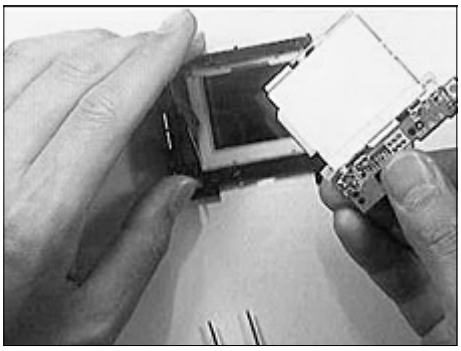
Screw

47. (2nd screw)

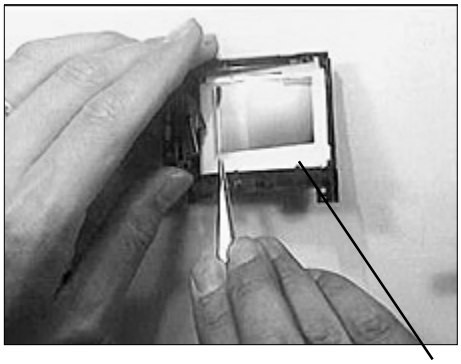


Screw

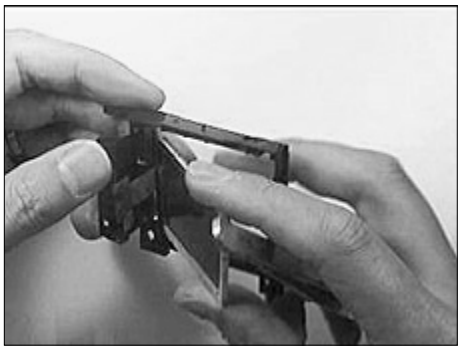
48. Remove BL unit.



49. Take the spacer out.

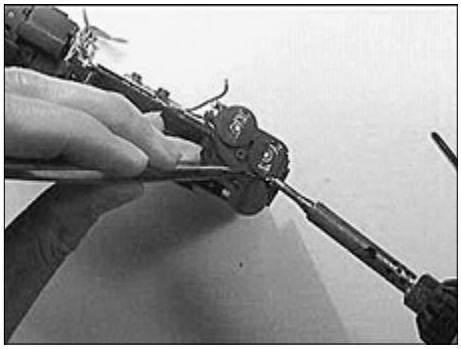


50. Remove LCD.

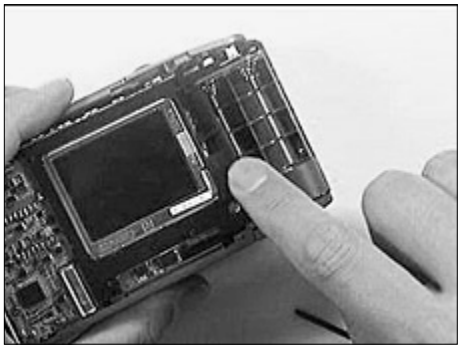


Cautions in assembly procedures

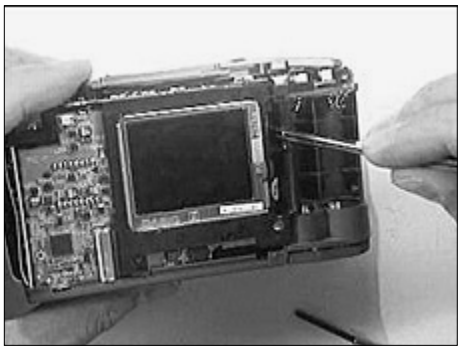
1. Solder battery holder wire after it is assembled.

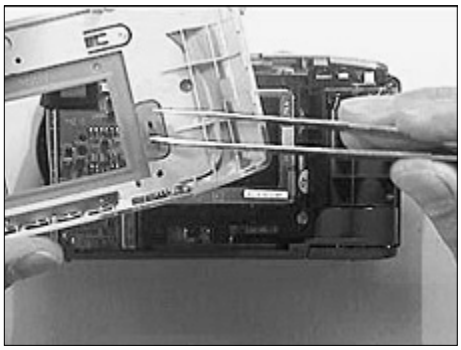


2. Use cloth tape so that cases do not catch the LCD flat cable.

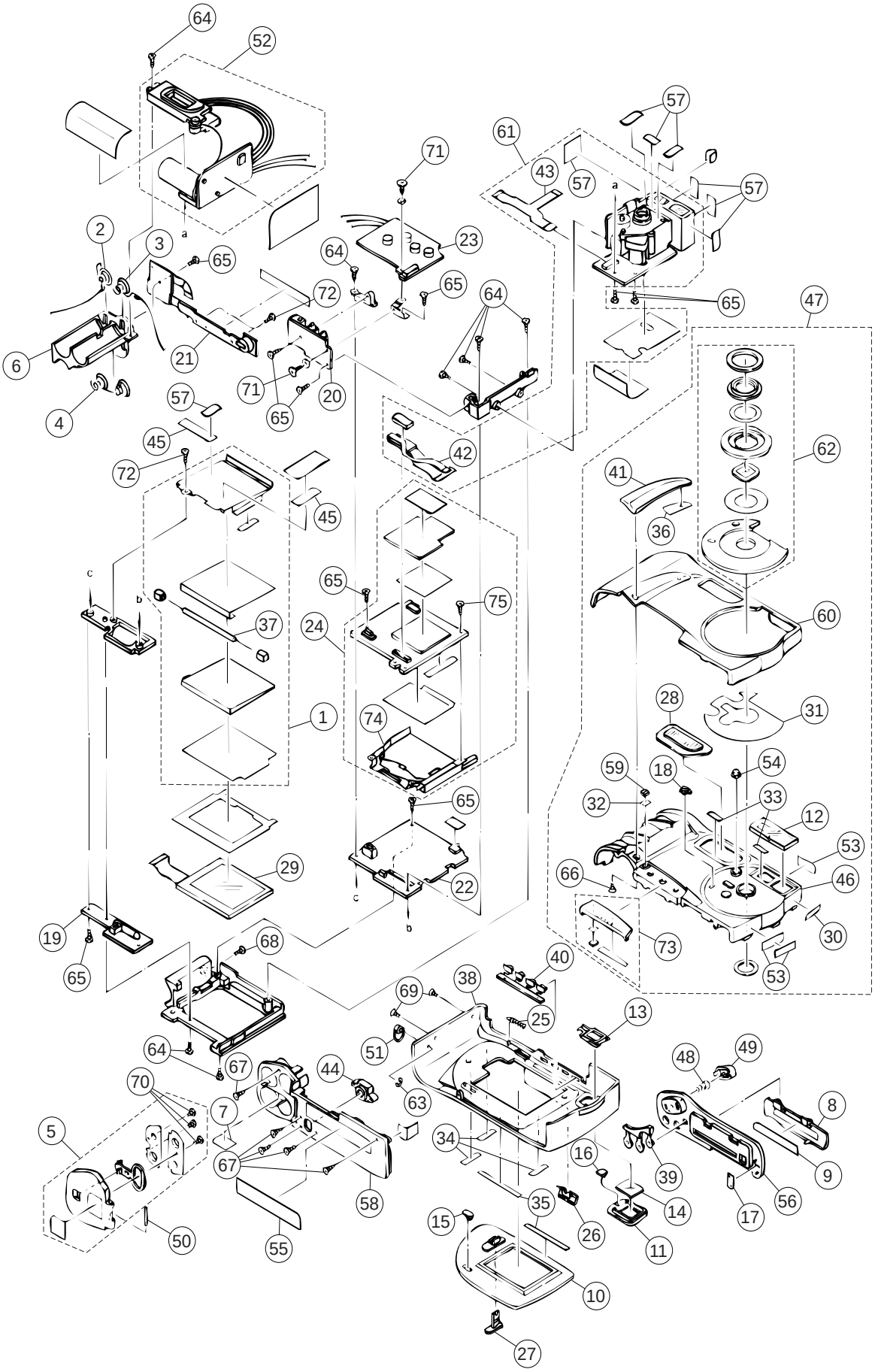


3. Position PLAY/REC switch knob so that it catches the switch.





EXPLODED VIEW



PARTS PRICE LIST

MAIN BODY COMPONENT

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
N	1	6613 8983	BL ASSY	K341502*1	Common	1	DA	A
	2	6613 1560	SPRING/BATTERY	K441294-1	Common	1	AB	X
	3	6613 1540	SPRING/BATTERY	K441295-1	Common	1	AB	X
	4	6613 1460	SPRING/BATTERY	K441296-1	Common	1	AC	X
N	5	6613 8969	BATTERY COVER ASSY	K341505*1	Common	1	AY	A
N	6	6613 9250	HOLDER/BATTERY	K341460-1	Common	1	AE	X
	7	6613 1220	LABEL/BATTERY	K441442-1	Common	1	AA	X
N	8	6613 9130	COVER/CF	K341457-1	Common	1	AD	X
	9	6613 4990	LABEL/CF	K441492-1	Common	1	AA	X
	10	6613 9150	COVER/DP	K140450-2	Common	1	AK	X
	11	6613 9160	COVER/FD	K140445-2	Common	1	AD	X
N	12	6613 2241	COVER/FD	K441471A-1	Common	1	AN	X
N	13	6613 9170	CASE/FD	K240857-2	Common	1	AA	C
	14	6613 1370	PROTECTOR/FINDER	K441299-1	Common	1	AC	X
N	15	6613 9190	BUTTON/LCD	K341038-2	Common	1	AB	C
	16	6613 1380	COVER/LED	K341054-1	Common	1	AA	X
N	17	6613 9120	COVER/LED	K441628-1	Common	1	AB	X
	18	6613 0940	COVER/LED	K341036-1	Common	1	AB	X
N	19	6613 8982	PCB ASSY/BACK LIGHT	K441672*1	Common	1	DA	A
N	20	6613 8987	PCB ASSY/JACK	K441673*1	Common	1	CZ	A
N	21	6613 8974	PCB ASSY/KEY	K441674*1	Common	1	DB	A
N	22	6613 8978	PCB ASSY/LINEAR	K140565*1	Common	1	DL	A
N	23	6613 8985	PCB ASSY/POWER	K241136*1	Common	1	DI	A
N	24	6613 8975	PCB ASSY/DIGITAL	K341510*1	EXCEPT U.S.A. MODEL	1	EF	A
N	24	1000 5576	PCB ASSY/DIGITAL	K341510*2	For U.S.A.MODEL	1	EE	A
	25	6613 1340	SPRING/POWER	K441298-1	Common	1	AA	X
N	26	6613 9180	KNOB/POWER	K441655-1	Common	1	AA	C
N	27	6613 8990	KNOB/REC	K441631-1	Common	1	AA	C
	28	6613 1100	COVER/STROBE	K341064-1	Common	1	AE	X
	29	2725 1347	LCD	COD18T1022RN	Common	1	DI	A
	30	6612 8590	TAPE/DOUBLE SIDE	K441252-1	Common	1	AA	X
	31	6613 1130	TAPE/DOUBLE SIDE	K441314-1	Common	1	AA	X
	32	6613 1110	TAPE/DOUBLE SIDE	K441445-2	Common	1	AA	X
	33	6613 1120	TAPE/DOUBLE SIDE	K441445-3	Common	2	AA	X
	34	6613 1390	TAPE/DOUBLE SIDE	K441445-4	Common	3	AA	X
	35	6613 1400	TAPE/DOUBLE SIDE	K441445-5	Common	2	AA	X
	36	6613 2791	TAPE/DOUBLE SIDE	K441501A-1	Common	1	AA	X
N	37	3851 2113	FLUORESCENT LAMP	CAS-1.8JS1.8-1	Common	1	AW	A
N	38	6613 9140	CASE/UPPER	K241096-1	Common	1	AS	C
N	39	6613 9090	BUTTON	K241094-1	Common	1	AK	C
N	40	6613 0891	BUTTON	K341041A-1	Common	1	AI	C
N	41	6613 9060	GRIP	K140487-2	Common	1	AD	X
	42	6613 1480	CABLE	K140422-1	Common	1	BM	X
	43	6613 1470	CABLE	K240915-1	Common	1	AI	X
	44	6613 1210	SCREW/STAND	K341059-1	Common	1	AC	X
N	45	6613 3070	PLATE/SEALED	K441500-1	Common	2	AA	X
N	46	6613 9042	CASE/LOWER	K140447B-2	Common	1	AP	C
N	47	6613 8964	CASE/LOWER	K241133*1	Common	1	DJ	C
N	48	6613 9110	SPRING/SHUTTER	K441649-1	Common	1	AA	C
N	49	6613 9100	BUTTON/SHUTTER	K341455-1	Common	1	AG	C
	50	6613 0900	SHAFT	K441310-1	Common	1	AA	X

NOTES: Q :Quantity used per unit
R :Rank

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
	51	6613 1330	PIN/STRAP	R340181-2	Common	1	AE	C
N	52	1015 1468	STROBE UNIT	CO-712	Common	1	CN	A
	53	6613 3500	PLATE/INSULATION	K441494-8	Common	3	AA	X
	54	6613 0930	COVER/SENSOR	K341055-1	Common	1	AB	X
	55	6613 9000	PLATE/RATING	K441441-2	EXCEPT U.S.A. MODEL	1	AA	X
N	55	1000 5573	PLATE/RATING	K441441-3	For U.S.A.MODEL	1	AA	X
N	56	6613 9080	CASE/TOP	K140554-1	Common	1	AK	C
	57	6601 1700	PLATE/INSULATION	K4117-3	Common	8	AA	X
N	58	6613 9070	CASE/BOTTOM	K140449-2	Common	1	AL	C
	59	6613 1090	MAGNET	K441281-1	Common	1	AF	X
	60	6613 9050	CASE/LOWER	K140444-2	Common	1	BT	C
N	61	6613 8980	LENS ASSY	K341504*1	Common	1	EK	A
N	62	6613 8971	LENS ASSY/PANEL	K341501*1	Common	1	CM	C
	63	5861 3649	E RING	1.5 JISB2805	Common	1	AA	X
	64	5112 0868	SCREW	BT3 1.7X5 BK	Common	9	AA	X
	65	5860 0301	SCREW	BT3 1.7X3.5 NI	Common	9	AA	X
	66	5860 2380	SCREW	PS3 1.7X3.5 BK	Common	1	AA	X
	67	5860 3381	SCREW	PS3 1.7X4 BK	Common	5	AA	X
	68	5861 3527	SCREW	BT3 1.7X2.5 BK	Common	1	AA	X
	69	5861 3692	SCREW	PS3 1.7X4 NI	Common	2	AA	X
	70	5861 3698	SCREW	PS1 1.7XZ2.0 NI	Common	3	AA	X
	71	5861 3741	SCREW	M1.7X3(BK)D-4H-5	Common	2	AA	X
	72	6330 5240	SCREW	A44797-5	Common	3	AA	X
N	73	2845 6455	COVER/CONNECTOR	K441670*1	Common	1	AF	X
N	74	1015 1467	EJECTOR/CARD	55370-0011	Common	1	AY	X
N	75	5861 3997	SCREW	ST1 2X2 NI	Common	1	AA	X

ACCESSORY

		1014 8773	CABLE/VIDEO	VC-K723-FC		1	AR	X
N		1015 1424	CF CARD (8 MB)	HB289008C4QV		1	DH	X
N		1015 1470	CASE/SOFT	SC-712		1	AW	X
		1015 1471	CABLE/PC-LINK	LC9F-DOS-K740-L		1	BX	X
N		1015 1472	CD-ROM	CK754CCD01R		1	AM	X
N		1015 1473	CD-ROM	CK712DAA01R		1	AL	X
N		3816 0259	LR6 alkaline batteries	LR6G/2ST		2	AG	X
		5861 3578	STRAP	ST-K775		1	AF	X
N		6613 9500	CAP/LENS	K341528-1		1	AC	X

ADJUSTMENT FILTER

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		1904 5436	FILTER/ND	ND10 (50X50)		1	DP	A
		1904 5437	FILTER/ND	ND20 (50X50)		1	DP	A
		1904 5440	FILTER/COLOR	LA50 (50X50)		1	DP	A

NOTES: Q :Quantity used per unit
R :Rank

DIGITAL PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		CONNECTOR						
	CN578	3502 2441	CONNECTOR	54154-0209		2	AD	X
		DIODE						
	D600	2390 1183	DIODE/CHIP	MA142WK-(TX)	(DAN202U-T106)	1	AA	X
		OSCILLATORS						
N	H400	2590 2776	OSCILLATOR	SSPT6-32KHZ		1	AL	C
	H452	2590 2745	OSCILLATOR	CX-51F-27.0M		1	AP	C
	H454	2590 2744	OSCILLATOR	CX-51F-20.0M		1	AP	C
		ICS						
N	IC400	2105 6647	IC	R3111Q351A	(S-80835ANNP-EDZ-T2)	1	AB	C
	IC402	2105 5215	IC	TC7W74FU(TE12L)		1	AE	C
	IC404	2105 6650	IC	S-75V32ANC-5V4-T2	(TC7S32FU(TE85L))	1	AB	C
N	IC410	2105 6644	IC	RS5C348A-E2		1	AM	C
N	IC412	2105 6645	IC	S-75V00ANC-5V1-T2	(TC7S00FU(TE85L)	1	AB	C
	IC414	2105 6629	IC	TC7W04FU(TE12L)		1	AC	C
	IC416	2105 6472	IC	TC74AC00FT(EL)		1	AF	C
N	IC420	2105 6643	IC	MSM82C55A-2LB		1	BI	C
N	IC427	2105 6649	IC	R3111Q421A	(S-80842-ANNP-ED6-T2)	1	AB	C
N	IC428	2105 6648	IC	R3111Q371A	(S-80837ANNP-ED1-T2)	1	AB	C
	IC458	2105 6470	IC	LM4041CIM3X-1.2		1	AL	C
N	IC460	2105 6646	IC	R3111Q301A	(S-80830ANNP-EDT-T2)	1	AB	C
	IC465	2105 6495	IC	TC7SL08FU(TE85L)		1	AD	C
N	IC550	2012 6352	LSI	LH28F160S3B-025		1	CE	C
N	IC560	2012 6327	LSI	KM416V4104BC-L6		1	CV	C
	IC561	2012 6327	LSI	KM416V4104BC-L6		1	CV	C
		FET						
	Q444	2795 8150	FET/CHIP	2SK2035(TE85L)		1	AA	B
		TRANSISTORS						
	Q400	2250 1162	TRANSISTOR/CHIP	2SA1576A-T106R	(2SB1218A-R(TX))	1	AA	B
	Q401	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q402	7101 5791	TRANSISTOR/CHIP	DTA144EE-TL		1	AA	B
	Q403	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q404	7101 5791	TRANSISTOR/CHIP	DTA144EE-TL		1	AA	B
	Q440	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q441	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q442	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q443	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q660	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q661	2251 0930	TRANSISTOR/CHIP	2SB1073-R(TX)	(2SB1386-T100R)	1	AB	B

NOTES: Q :Quantity used per unit
R :Rank

LINEAR PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		DIODES						
	D160	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	X
	D161	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	X
	D162	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	(RB501V-40TE-17)	1	AB	X
	D163	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	X
	D190	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	(RB501V-40TE-17)	1	AB	X
	D300	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	(RB501V-40TE-17)	1	AB	X
	D310	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	(RB501V-40TE-17)	1	AB	X
	D757	2390 1358	DIODE/VARICAP	MA329-(TX)		1	AC	X
	D778	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	X
		FUSE						
	FU900	2797 5589	FUSE	PI-R429.375		1	AC	B
		ICS						
	IC150	2114 5800	IC	MB3800PFV-G-BND-EF		1	AP	C
	IC180	2105 4501	IC	RN5RL30AA-TR		1	AD	C
	IC300	2254 0550	IC	TC7W66FU-(TE12L)		2	AD	C
	IC302	2254 0550	IC	TC7W66FU-(TE12L)		2	AD	C
	IC310	2105 6490	IC	TK15405MTL		1	AH	C
	IC315	2105 5712	IC	TC7S04FU(TE85L)		1	AD	C
	IC340	2114 5846	IC	IR3Y26A1		1	BH	C
	IC390	2114 5805	IC	NJM3414AV-TE1		1	AI	C
	IC730	2012 5983	LSI	CM7018L3-T4N		1	AY	C
	IC900	2114 5858	IC	S-8327B54MC-ESI-T2			AH	C
		FET						
	Q310	2254 0448	FET/CHIP	2SK1580-T1		1	AC	B
		TRANSISTORS						
	Q152	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q155	2253 0308	TRANSISTOR/CHIP	2SD1119-R(TX)		1	AC	B
	Q300	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q301	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q900	2253 0308	TRANSISTOR/CHIP	2SD1119-R(TX)		1	AC	B
	Q905	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
		SWITCHS						
	SW300	3412 1106	SWITCH/SLIDE	SSSS212-12-B		1	AC	C
	SW310	2254 0555	SWITCH	ESE22MH4		1	AC	C
		CONVERTER						
N	T155	3065 0736	CONVERTER/DC-DC	CLQ72-01		1	AH	C
		VARIABLE RESISTOR						
N	VR151	2775 3467	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-502N-T00	(EVM-1XSX50B53)	1	AA	C
N	VR320	2775 3466	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-102N-T00	(EVM-1XSX50B13)	1	AA	C
N	VR340	2775 3465	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-503N-T00	(EVM-1XSX50B54)	1	AA	C
N	VR344	2775 3465	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-503N-T00	(EVM-1XSX50B54)	1	AA	C
N	VR381	2775 3464	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-203N-T00	(EVM-1XSX50B24)	1	AA	C
N	VR755	2775 3464	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-203N-T00	(EVM-1XSX50B24)	1	AA	C

NOTES: Q :Quantity used per unit
R :Rank

POWER PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		DIODES						
	D100	2390 2506	DIODE/CHIP	RB060L-40TE25		1	AD	C
	D110	2390 1883	DIODE/SCHOTTKY	RB160L-40TE-25	(MA738-(TX))	4	AC	C
	D120	2390 1883	DIODE/SCHOTTKY	RB160L-40TE-25	(MA738-(TX))	4	AC	C
	D127	2390 1883	DIODE/SCHOTTKY	RB160L-40TE-25	(MA738-(TX))	4	AC	C
	D130	2390 1379	DIODE/SCHOTTKY	MA729-(TX)	(RB501V-40TE-17)	1	AB	C
	D131	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D140	2390 1883	DIODE/SCHOTTKY	RB160L-40TE-25	(MA738-(TX))	4	AC	C
	D195	3013 2611	LED/CHIP	SML-010JTT86		1	AB	C
		FUSES						
	FU102	2797 5612	FUSE	PI-R431001		1	AC	B
	FU103	2797 5616	FUSE	PI-R43101.5		1	AC	B
	FU104	2797 5616	FUSE	PI-R43101.5		1	AC	B
		ICS						
	IC110	2105 6480	IC	S-8520B33MC-ARS-T2		1	AL	C
	IC115	2105 6479	IC	RN5RL33AA-TR		1	AC	C
	IC120	2114 5842	IC	S-8327E50MC-EKE-T2		1	AI	C
	IC125	2105 6477	IC	LP2951CMX		1	AM	C
	IC127	2105 6478	IC	RH5RH553B-T1		1	AK	C
	IC130	2114 5607	IC	TK11830MTL		1	AL	C
	IC135	2114 5849	IC	TK11250BMCL		1	AE	C
	IC137	2114 5849	IC	TK11250BMCL		1	AE	C
	IC139	2114 5849	IC	TK11250BMCL		1	AE	C
	IC140	2105 6480	IC	S-8520B33MC-ARS-T2		1	AL	C
		FETS						
	Q110	2114 5807	FET/CHIP	SI3441DV-T1		1	AK	B
	Q127	2105 6481	FET/CHIP	SI3442DV-T1		1	AH	B
	Q140	2114 5807	FET/CHIP	SI3441DV-T1		1	AK	B
		TRANSISTORS						
	Q111	2259 2745	TRANSISTOR/DIGITAL	DTC143EE-TL		1	AA	B
	Q120	2251 0847	TRANSISTOR/CHIP	2SB1386-T100R		1	AD	B
	Q121	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q122	2259 2758	TRANSISTOR/CHIP	2SD2150-T100S		1	AB	B
	Q126	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q130	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
	Q131	2250 1579	TRANSISTOR/CHIP	2SA1774-TLR		1	AA	B
	Q195	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	B
		VARIABLE RESISTOR						
	VR120	2775 3465	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-503N-T00	(EVM-1XSX50B54)	1	AA	C
	VR125	2775 3465	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-503N-T00	(EVM-1XSX50B54)	1	AA	C
	VR130	2775 3464	RESISTOR/SEMIFIXED/CHIP	POZ2AN-1-203N-T00	(EVM-1XSX50B24)	1	AA	C

NOTES: Q :Quantity used per unit
R :Rank

JACK PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		CONNECTOR						
	CN101	3502 2445	CONNECTOR	53309-1090		1	AC	C
		FUSE						
	FU100	2797 5594	FUSE/CHIP	PI-R429002		1	AC	B
		JACKS						
	JK100	3501 6755	JACK/POWER	HEC3600-010120		1	AD	C
	JK101	3501 8197	JACK/MINI	HSJ1169-019010		1	AF	C
	JK102	3502 2439	JACK	HSJ1456-01-220		1	AC	C

KEYBOARD PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		CAPACITOR						
	C810	2845 6455	CAPACITOR	EECSOMD473H		1	AF	X
		DIODES						
	D800	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D801	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D802	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D803	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D804	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D805	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D806	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D807	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
	D808	2390 1820	DIODE/CHIP	1SS355-TE-17	(MA111-(TX))	1	AA	C
N	D810	2370 1412	LED/CHIP	SML-010MTT86		1	AA	C
		TRANSISTORS						
	Q800	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	AA	C
		SWITCHS						
	SW800	3412 2085	SWITCH	SKQAAA-T		1	AC	C
	SW802	3412 1519	SWITCH	SKQMAH-T3		1	AC	C
	SW803	3412 1519	SWITCH	SKQMAH-T3		1	AC	C
	SW804	3412 1995	SWITCH	SKQRAA-T		1	AB	C
	SW805	3412 1995	SWITCH	SKQRAA-T		1	AB	C
	SW806	3412 1995	SWITCH	SKQRAA-T		1	AB	C
	SW807	3412 1519	SWITCH	SKQMAH-T3		1	AC	C
	SW808	3412 1995	SWITCH	SKQRAA-T		1	AB	C
N	SW810	3412 2088	SWITCH	ABC1111P		1	AB	C

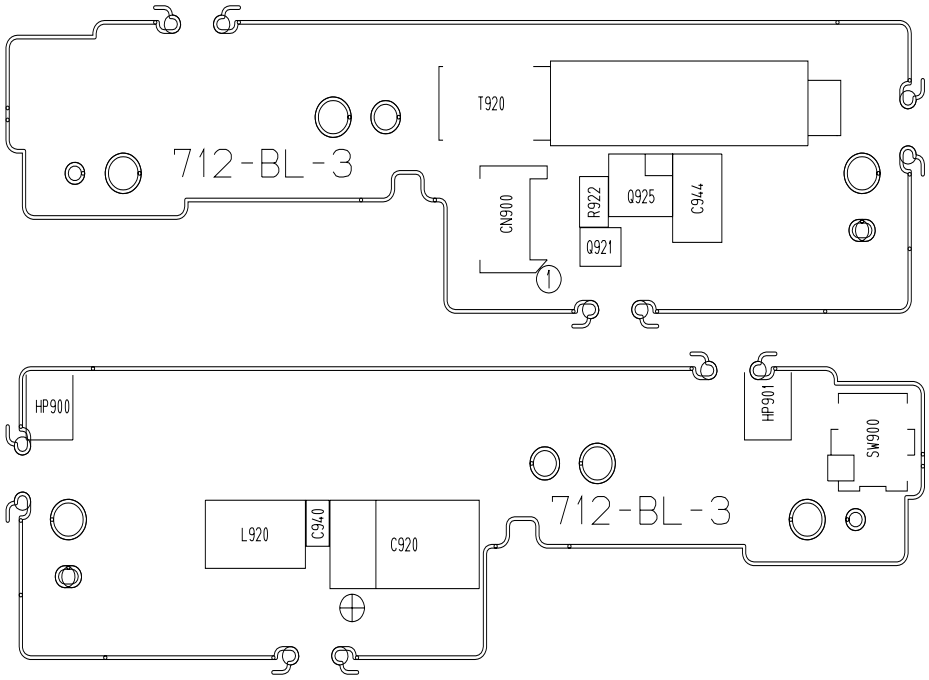
BACK LIGHT PCB ASS'Y

N	Item	Code No.	Parts Name	Specification	Applicable	Q	Price Code	R
		TRANSISTOR						
	Q921	2259 2744	TRANSISTOR/DIGITAL	DTA143EE-TL		1	AA	B
N	Q925	2259 2789	TRANSISTOR/ARRAY	IMX17-T110		1	AA	B
		SWITCH						
	SW900	3412 1995	SWITCH	SKQRAA-T		1	AB	C
		TRANSFORMER						
N	T920	3012 1611	TRANSFORMER/INVERTER	BLT1.8K712		1	AT	C

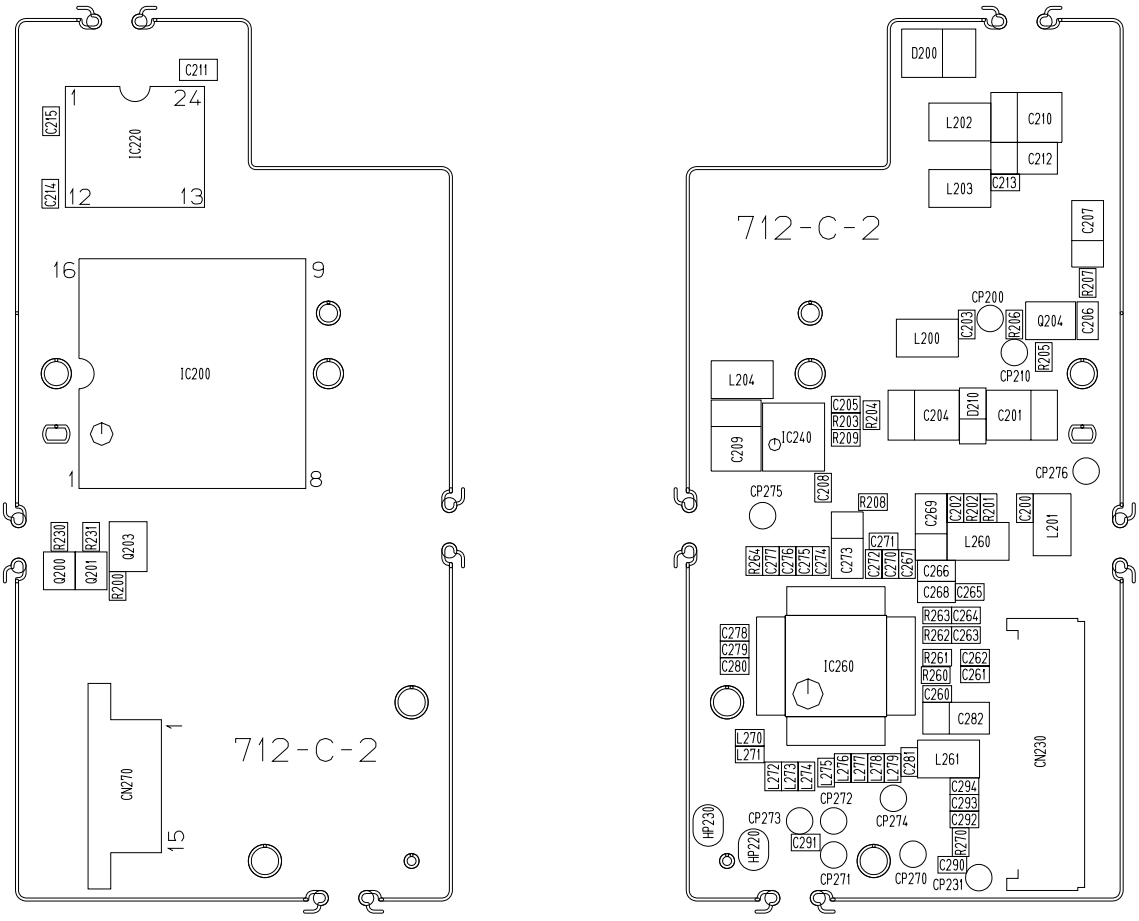
NOTES: Q :Quantity used per unit
R :Rank

PRINTED CIRCUIT BOARDS

BL PCB (PCB-712BL)



C PCB (PCB-712C)



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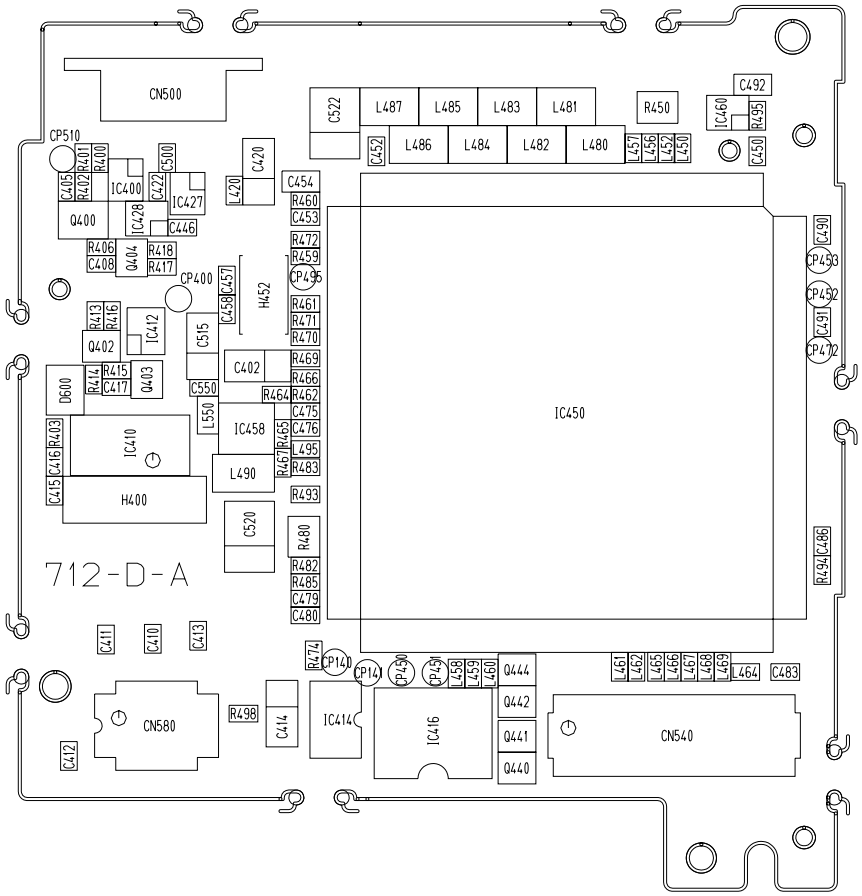
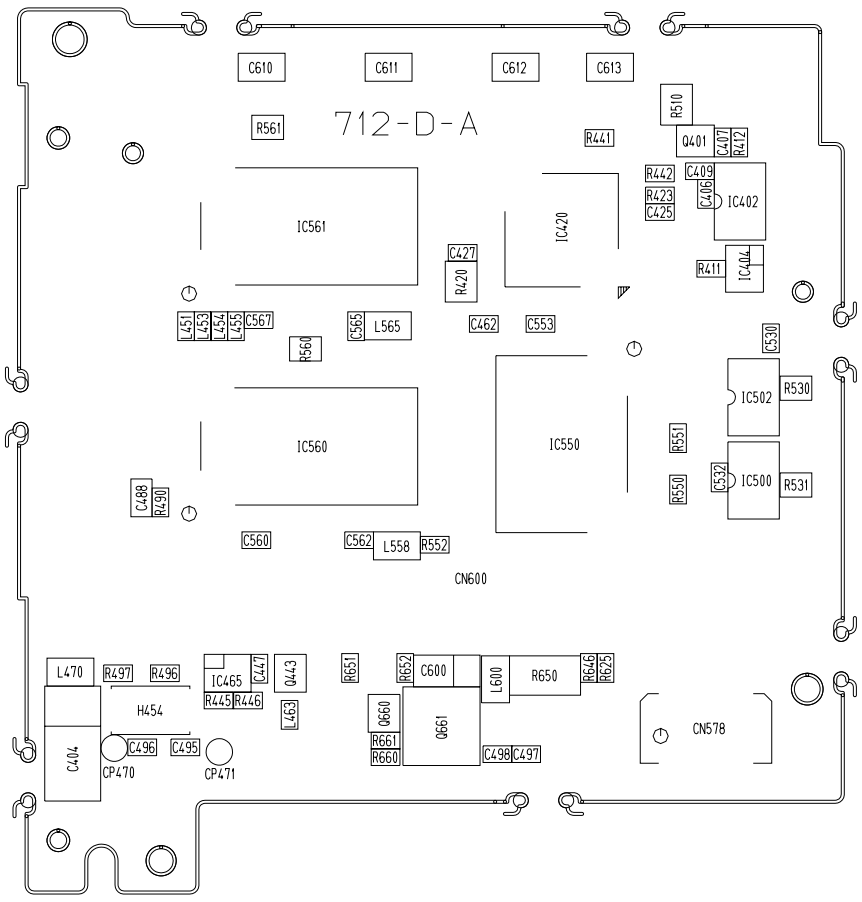
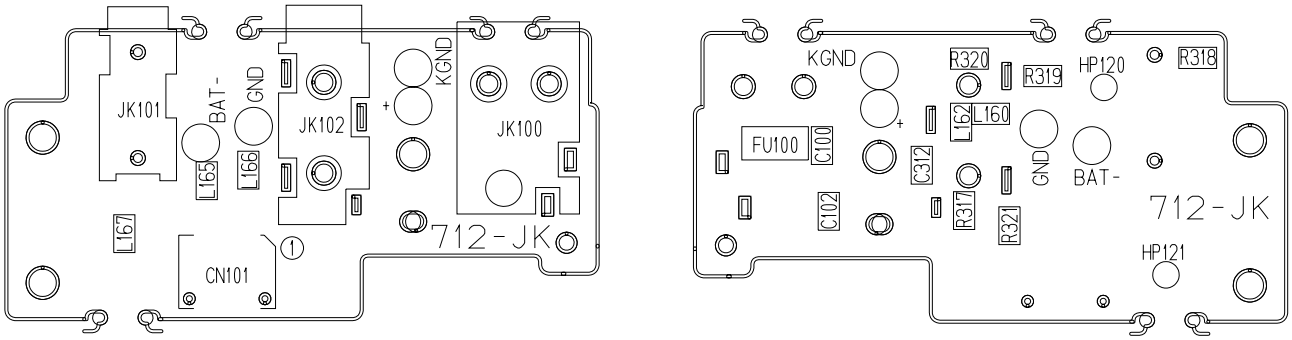
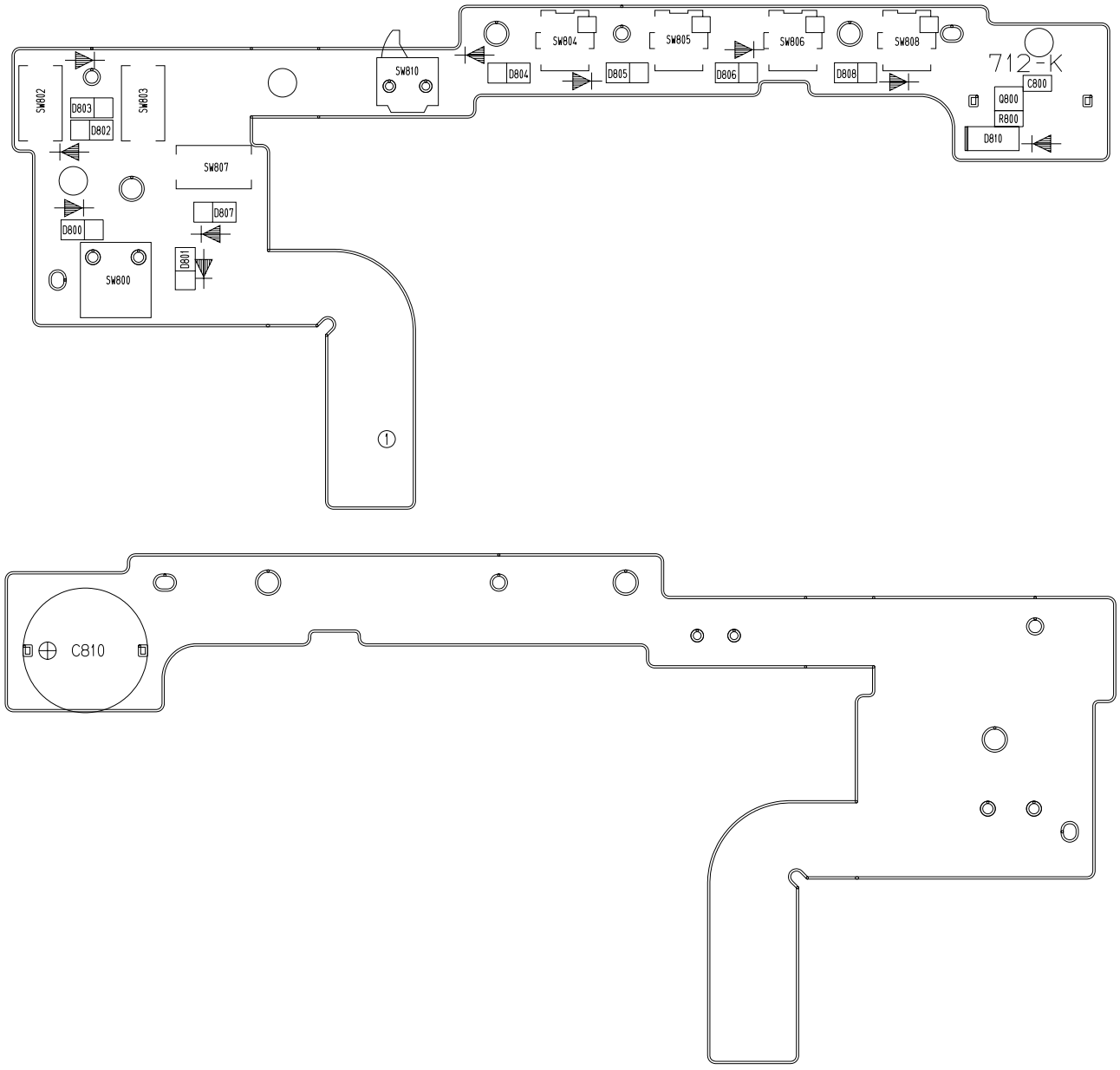




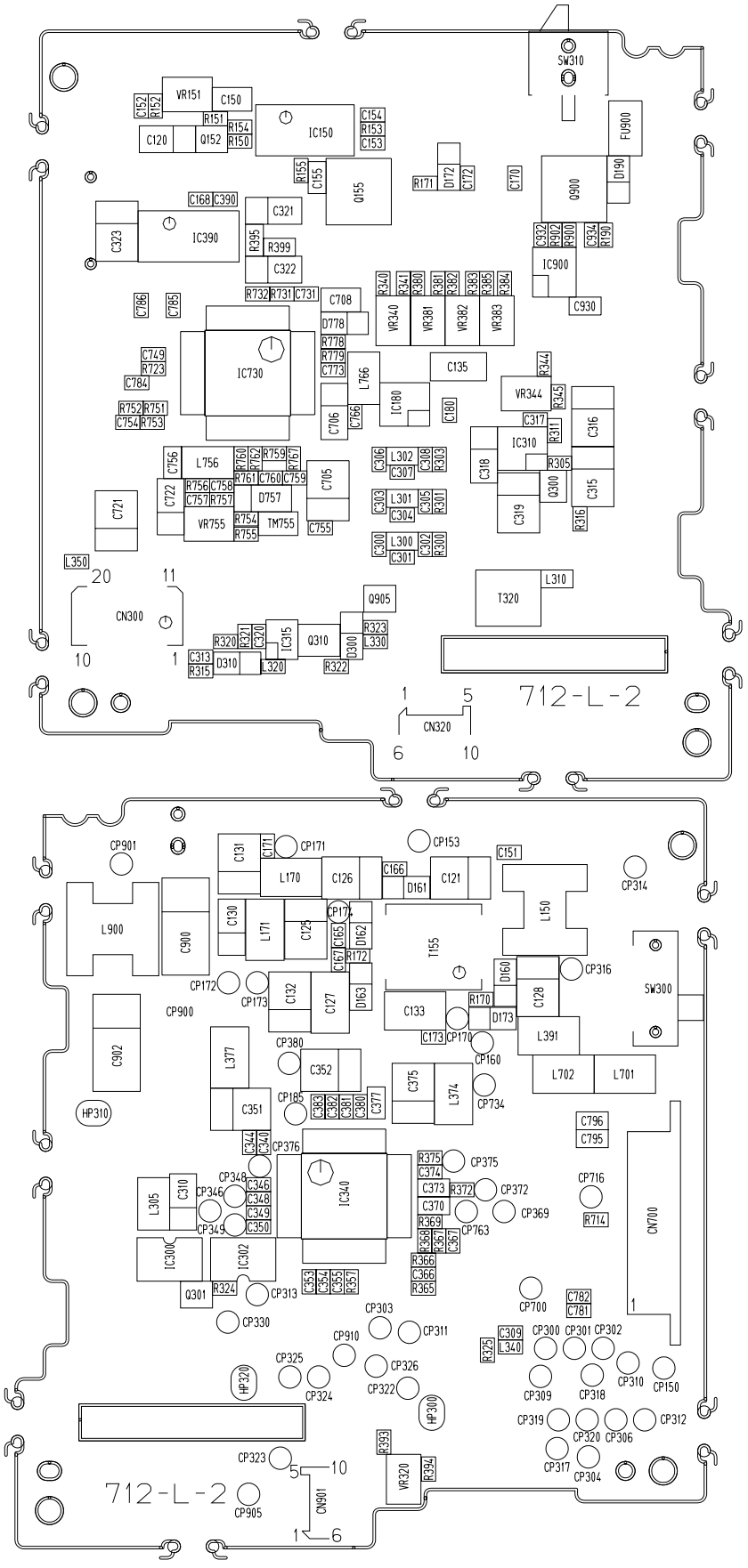
JK PCB (PCB-712JK)



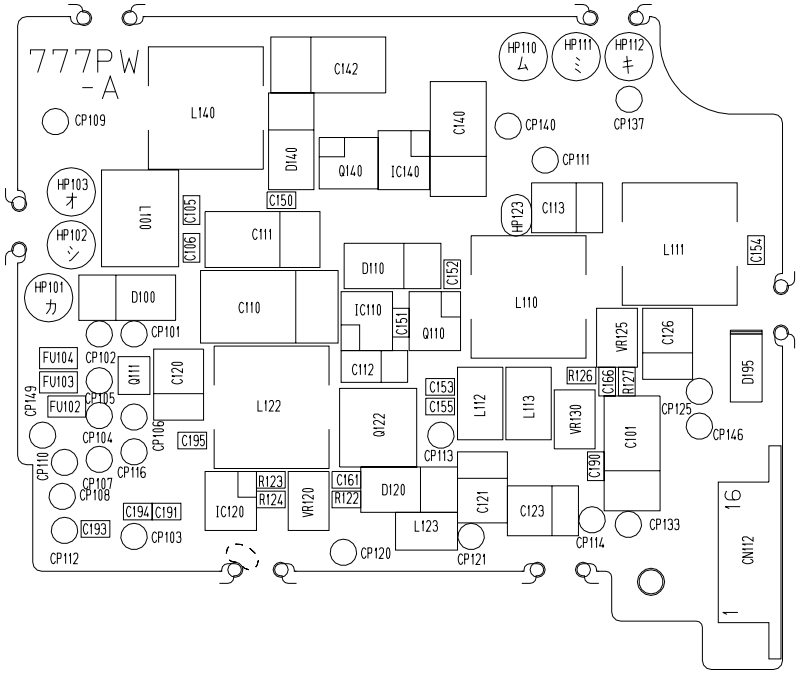
K PCB (PCB-712K)

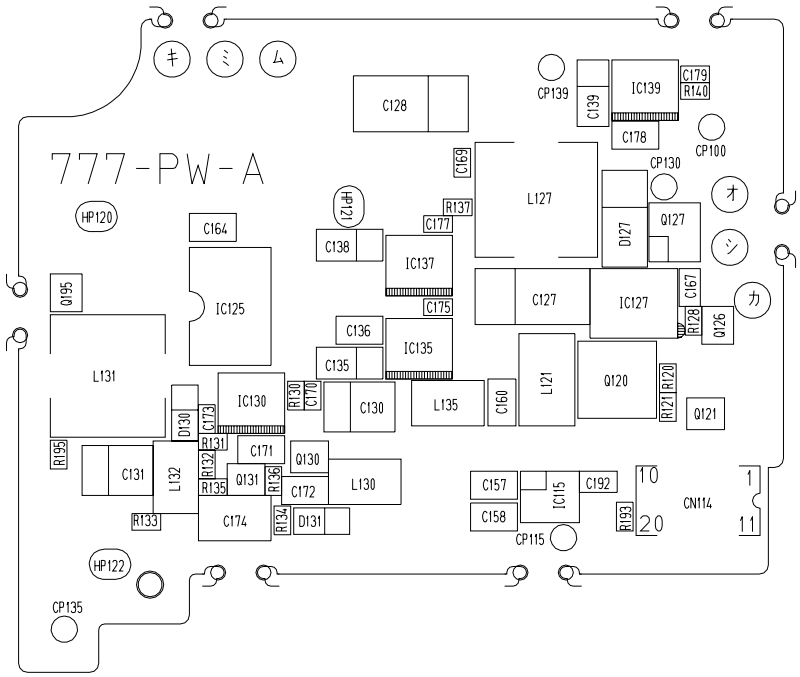


L PCB (PCB-712L)



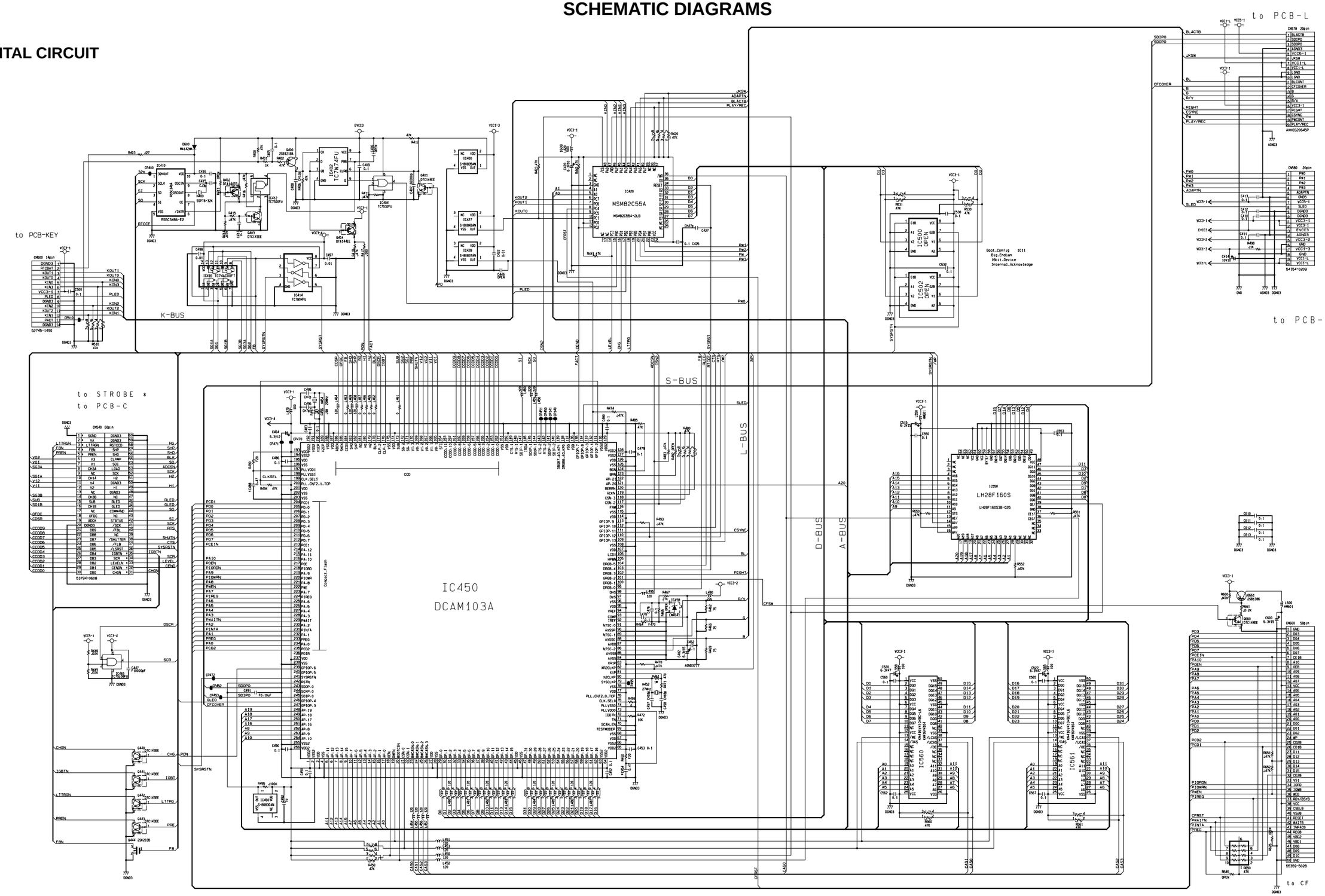
PW PCB (PCB-K777PW)



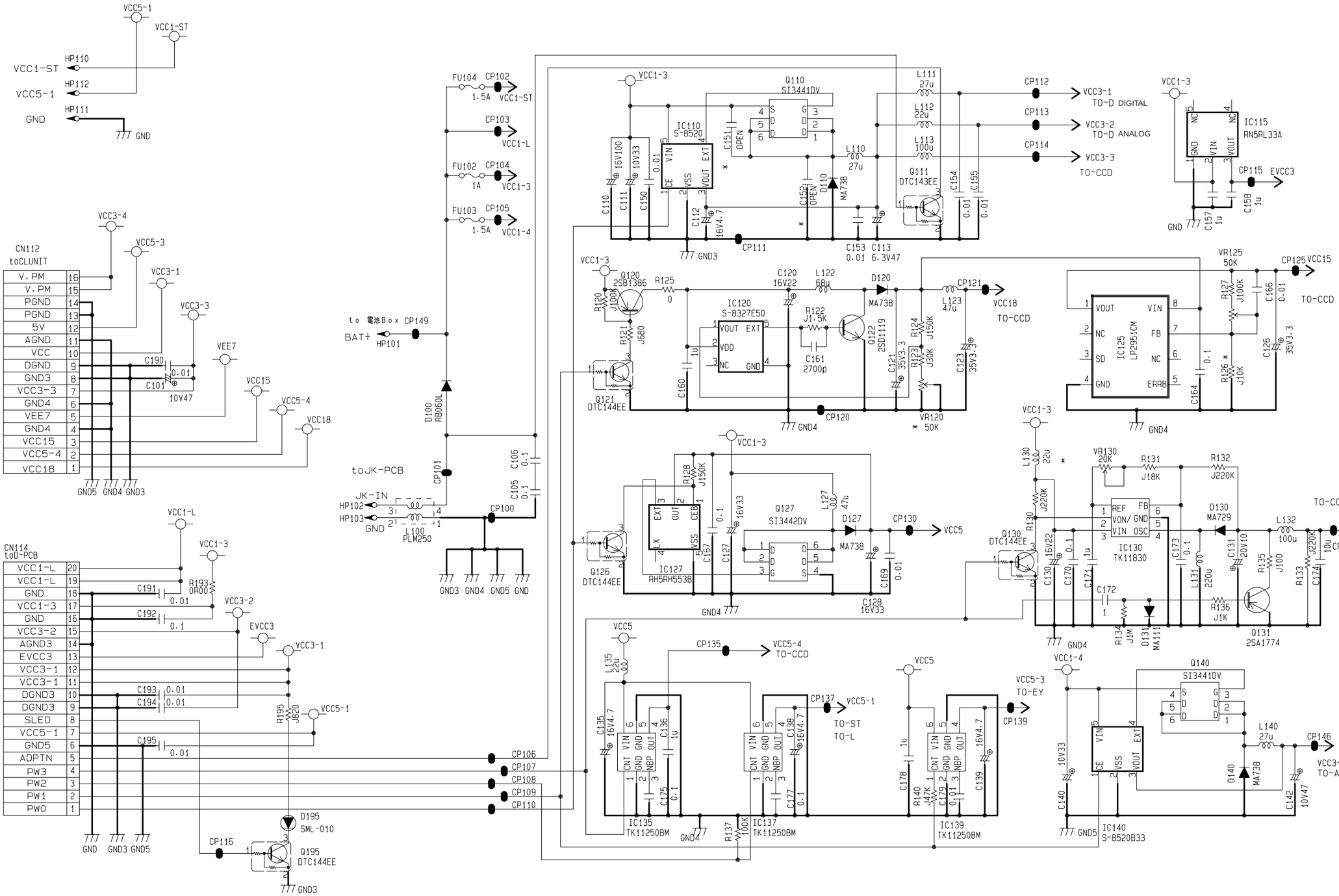


SCHEMATIC DIAGRAMS

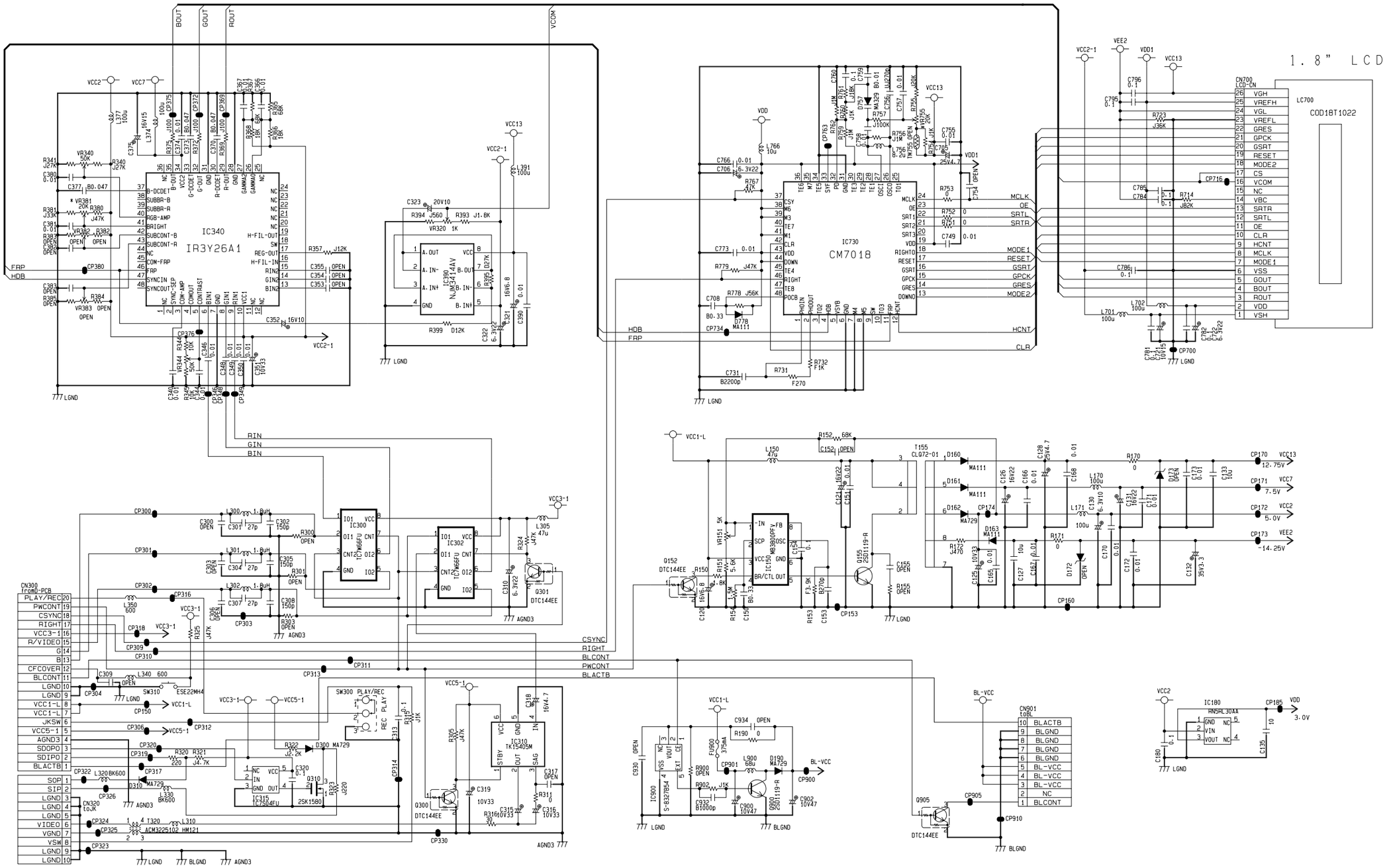
DIGITAL CIRCUIT



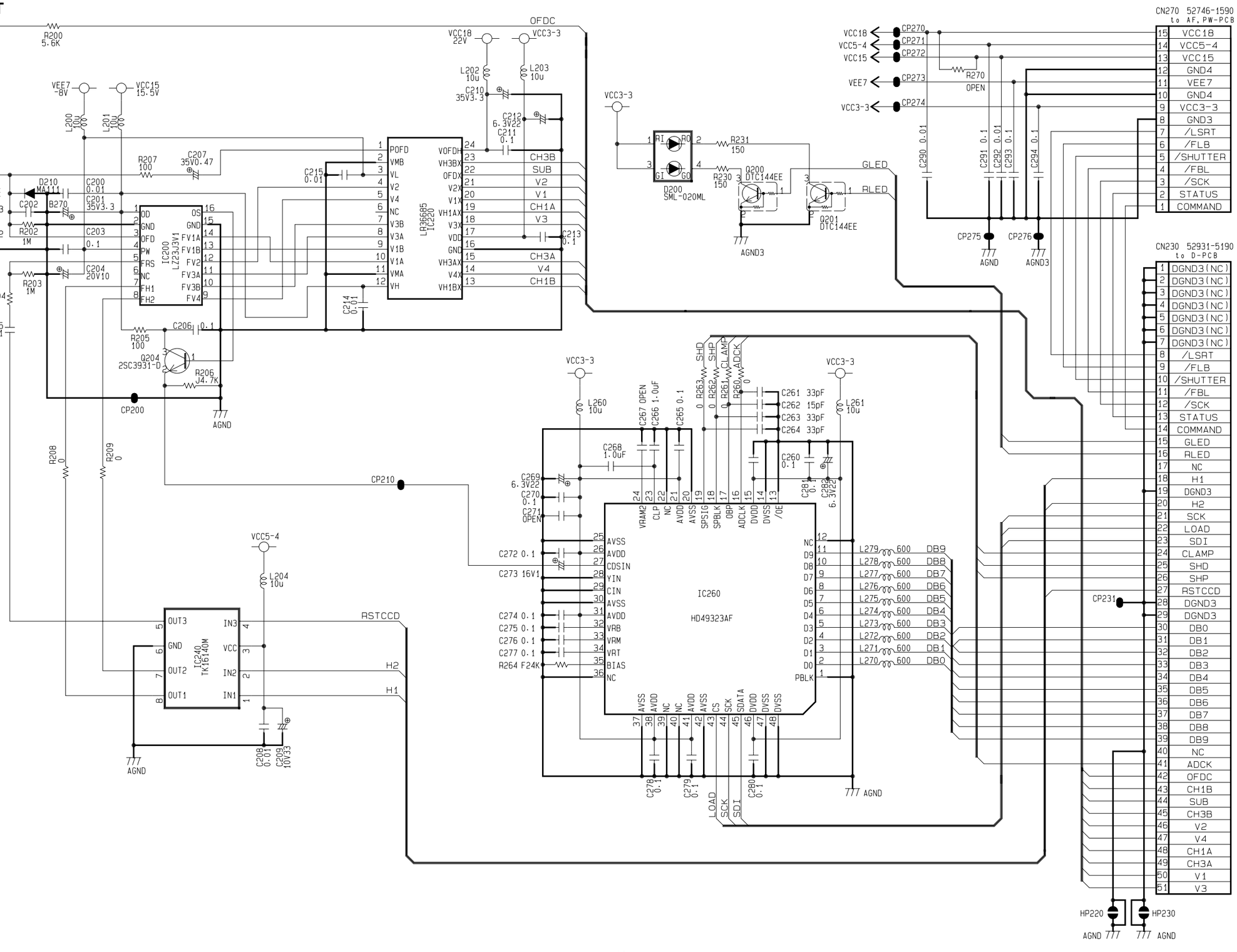
POWER CIRCUIT



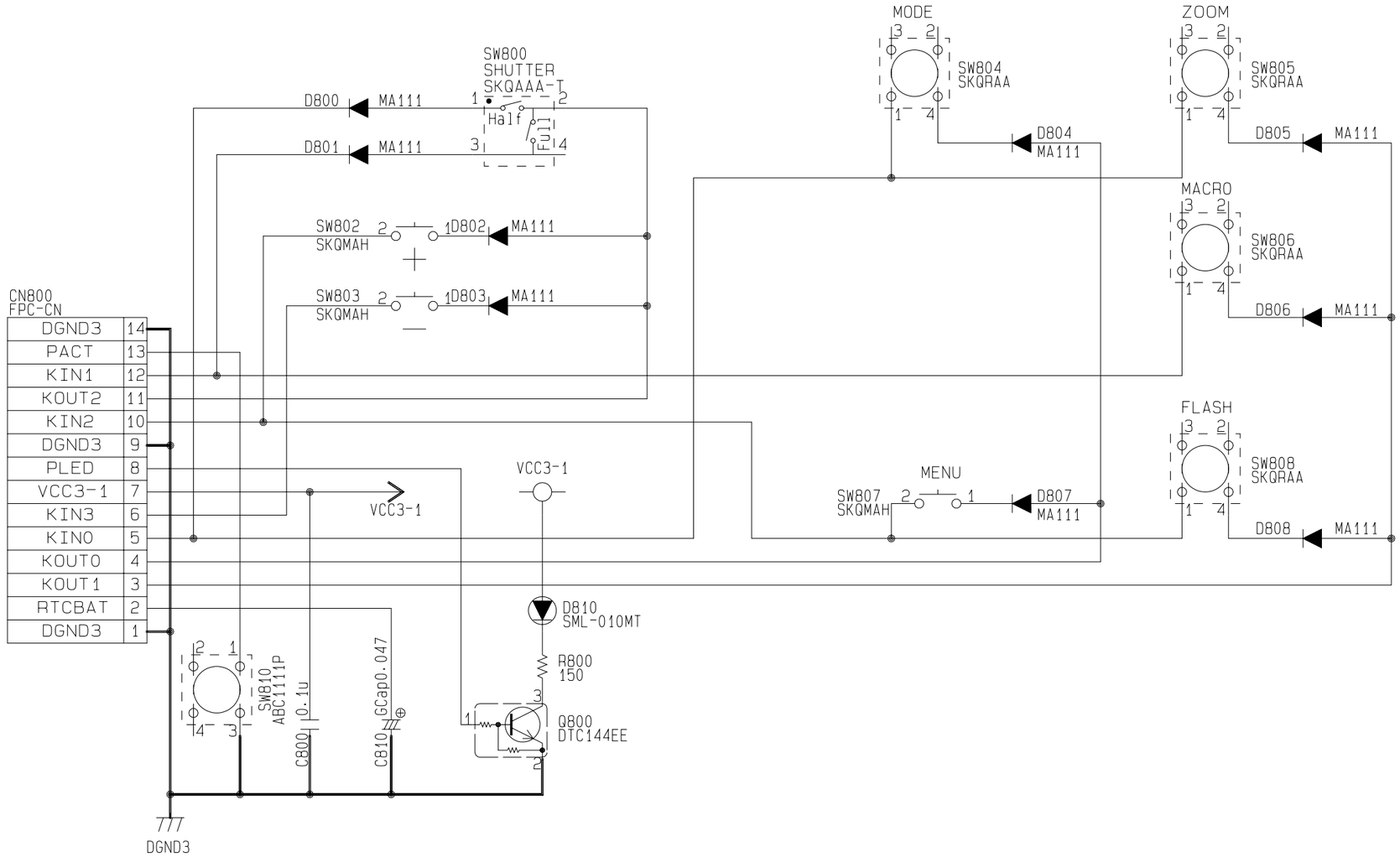
LINEAR CIRCUIT



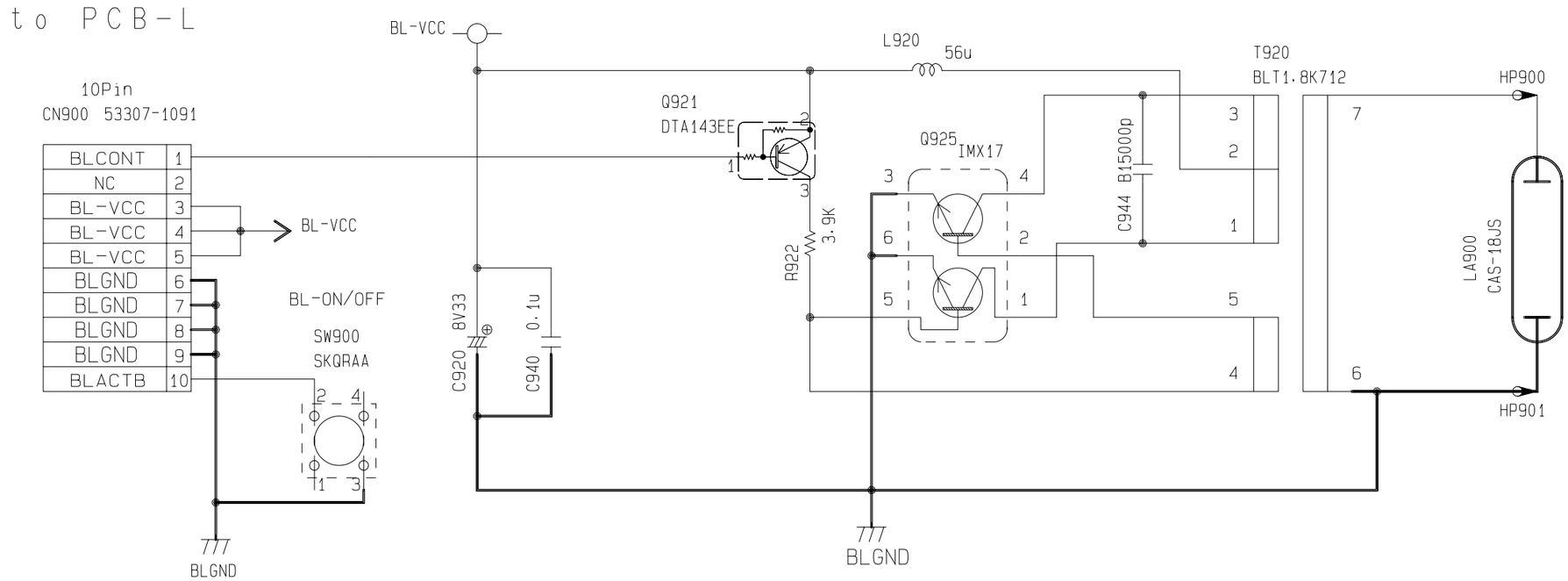
C-PCB CIRCUIT



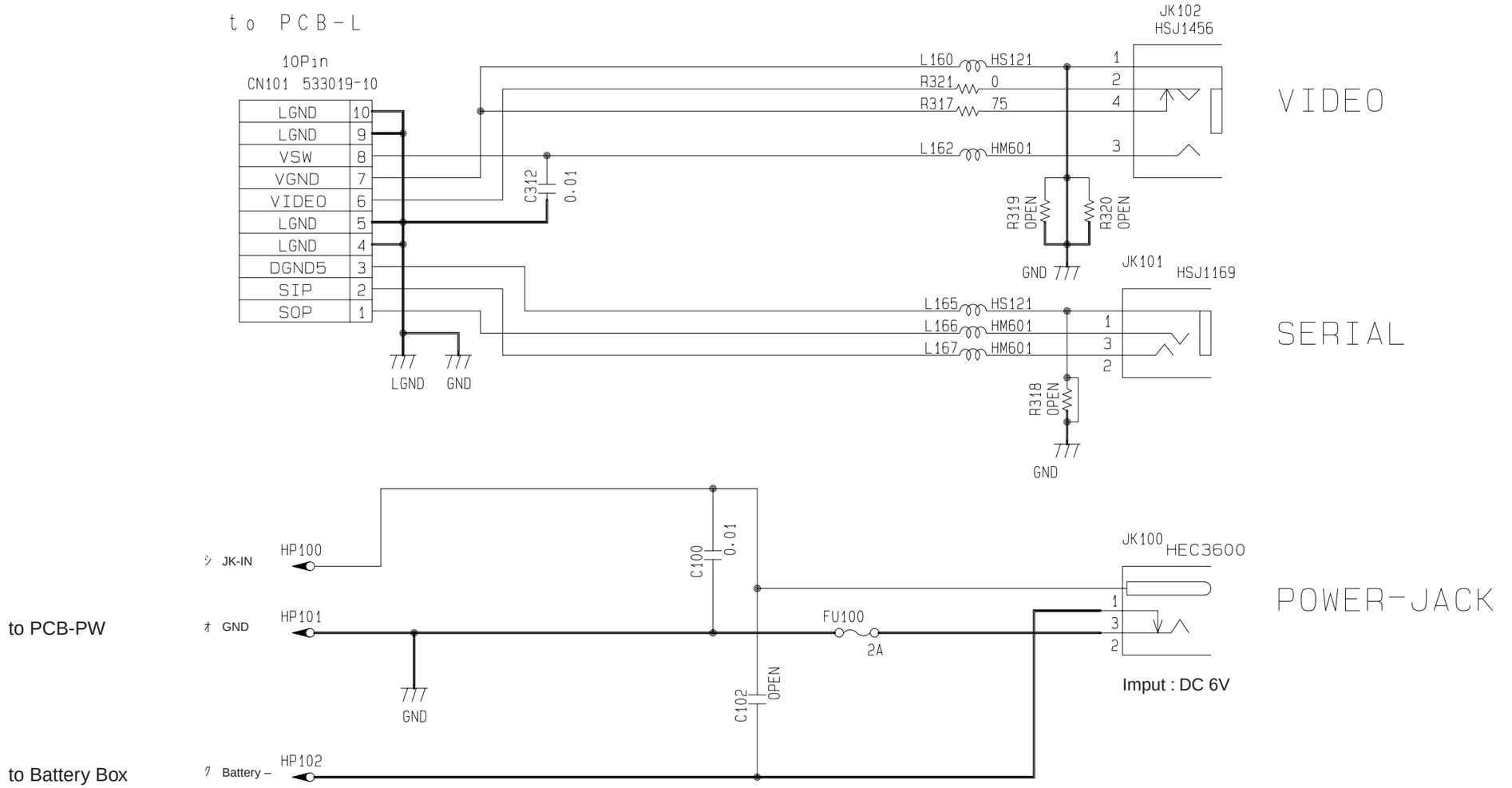
K-PCB CIRCUIT



BL-PCB CIRCUIT



JK-PCB CIRCUIT



TROUBLESHOOTING

1 : Display failure on Video/LCD display is OK.

- Setting of NTSC/PAL is incorrect.
  ➠ Charge the video setting that is right for the TV (Refer to user's manual).
- L board failure of JK board failure.
  ➠ Replace boards.

2 : Flash does not work.
Unable to adjust (White 100 %).
Unable to set to red eye reduction mode (Flashes only once).

- Strobe unit failure.
  ➠ Replace strobe unit.

3 : No display when in REC mode. Display failure.

- Connection failure of D board connector (CN540).
  ➠ Reconnect connector.

4 : Unable to focus.

- Dirty lens. ➠ Clean lens.
- Lens assy failure. ➠ Replace lens assy.

5 : The film counter seems incorrect.

➠ The film counter reduces depending on the available memory. If one picture takes a lot of memory the film counter may reduce by two. In some cases film counter may not change. The film counter is only a predicted number considering from the remaining memory.

6 : The picture is blurred.

➠ The recording precision is a lot higher than the VGA camera from while ago.
A little bit of dirtiness or movement of the camera may affect the picture.
Clean the lens and press the shutter button slowly.
When it is a bit dark and slow shutter is in operation using a tripod is recommended.
Also make sure that LED of AF is green, and MACRO/NORMAL setting is accurate.

7 : Through display looks smaller and blurry than the PLAY display.

➠ The display is little rougher than the ones before.
This is because there are more pixels now which will take more time to produce picture, so in order to display the through pictures without waiting their is a preview display. At the same time thinning out of picture is in operation which results in disturbing lines.
There is no problem with the recorded through picture.

8 : The LCD display disappears when inserting video cord to the video output terminal in PLAY mode.

➠ When you inset video cord for external display the display on camera will disappear.

9 : 4 to 5 seconds after watching the picture on LCD video the display changes.

➠ QV-5500SX has preview display to show the pictures early. When looking in PLAY mode preview display is displayed first than the more precise picture after that.

APPENDIX

1. The distinction method of a model.

• A model is Judged on a rated plate.

For U.S.A MODEL

EXCEPT U.S.A MODEL

Ver.1 : The following items were changed

- SPECIFICATIONS (P.2)
- PARTS LIST (P.26,27,28)

The following items are added

- APPENDIX

1. The distinction method of model (P.45)

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